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THIRTY-FIRST  
ANNUAL COAL REPORT  
OF ILLINOIS

STATE MINING BOARD  
1912.



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## STATE MINING BOARD.

1912.

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WILLIAM SPENNY, Canton.

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1912.

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*Second District,*

THOMAS HUDSON, Galva.

*Third District,*

JOHN DUNLOP, Peoria.

*Fourth District,*

JAMES TAYLOR, Peoria.

*Fifth District,*

W. S. BURRIS, Danville.

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THOMAS P. BACK, Springfield.

*Seventh District,*

W. W. WILLIAMS, Litchfield.

*Eighth District,*

W. L. MORGAN, R. R. 2, E. St. Louis.

*Ninth District,*

WALTON RUTLEDGE, Alton.

*Tenth District,*

THOMAS LITTLE, Murphysboro.

*Eleventh District,*

FRANK ROSBOTTOM, Benton.

*Twelfth District,*

OSCAR CARTLIDGE, Marion.



## LETTER OF TRANSMITTAL.

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STATE OF ILLINOIS,  
OFFICE OF THE STATE MINING BOARD,  
SPRINGFIELD, Jan. 1, 1913.

*Honorable Charles S. Deneen, Governor of Illinois:*

SIR—I have the honor, on behalf of the State Mining Board, to submit herewith the thirty-first annual report of the coal industry of the State for the fiscal year ended June 30, 1912.

Very respectfully,

MARTIN BOLT,  
*Chief Clerk.*





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## THIRTY-FIRST ANNUAL COAL REPORT.

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### Statistics of Coal in Illinois for the Year Ended June 30, 1912.

#### INTRODUCTORY.

The coal production of Illinois reached the highest point in the history of the industry during the year ended June 30, 1912. The increase over last year is 7,349,141 tons.

This notable increase is the more remarkable when it is considered that the shipping mines, which produce 97½ per cent of the total product, are seven less than last year.

While, as the report shows, the number of days worked and the number of men employed in the shipping mines has increased since last report, the ratio is not in proportion to the increased product. The average daily output for each man employed is 4.27 tons, while 3.87 tons was the daily average in 1911.

The total number of mines show an increase of thirty-four compared with last year. These mines belong principally to the local group and this increase affects production in but a very limited degree.

There has been a considerable increase in the number of mines using machines, number of machines in use and in tons undercut. The increase in mines is thirteen, in machines 151 and in tons cut 5,551,760. The comparative table shows that this method of mining has steadily increased from year to year until more than 44 per cent of the total output is mined in this way.

The number of kegs of powder used for blasting down the coal is 1,313,448. This is an increase of 73,155 kegs, or 5.9 per cent, while the output is increased 14.6 per cent.

The number of men killed while in the discharge of duty is 180, and 800 men were injured so as to lose thirty or more days time.

The increase in the number of fatal casualties is in exact proportion to the increase in tonnage, as will be shown by reference to the tables relating to this subject. An examination of these tables will reveal the causes responsible for these casualties.

The data contained in this report is furnished by the State Inspectors of Mines of the twelve districts into which the State is divided, and the same general plan is followed that has prevailed heretofore.

With but few exceptions the tables are made in the same form as in prior years, and a careful examination and comparison of them is invited, believing that they will afford an intelligent comprehension of the character and extent of one of the great industries of the State.

### SUMMARY.

The following summary of the principal items of this report and for 1911 is here presented:

| Summary.  | 1912.      | 1911.      |
|---|------------|------------|
| Number of counties producing coal.....                                | 52         | 53         |
| Number of mines and openings of all kinds.....                        | 879        | 845        |
| New mines or old mines reopened during the year.....                  | 176        | 184        |
| Mines closed or abandoned since last report.....                      | 142        | 217        |
| Total output of all mines, in tons of 2,000 pounds.....               | 57,514,240 | 50,165,099 |
| Number of shipping or commercial mines.....                           | 380        | 387        |
| Total output of shipping mines, tons.....                             | 56,096,695 | 48,758,657 |
| Number of mines in local trade only.....                              | 499        | 458        |
| Output of local mines, tons.....                                      | 1,417,545  | 1,406,442  |
| Total tons of mine run coal.....                                      | 13,366,509 | 13,025,663 |
| Total tons of lump coal.....  | 21,795,527 | 19,588,409 |
| Total tons of egg coal.....   | 4,940,431  | 3,725,073  |
| Total tons of nut coal.....   | 3,193,956  | 2,425,712  |
| Total tons of pea coal.....   | 11,109,191 | 10,268,458 |
| Total tons of slack coal.....   | 3,108,626  | 1,131,784  |
| Total tons shipped.....   | 51,502,382 | 44,578,400 |
| Tons supplied to locomotives at the mines.....                        | 924,854    | 877,793    |
| Tons sold to local trade.....   | 2,615,678  | 2,716,977  |
| Tons consumed (or wasted) at the plant.....                           | 2,471,326  | 2,090,929  |
| Average days of active operation for shipping mines.....              | 172        | 169        |
| Average days of active operation for all mines.....                   | 160        | 165        |
| Number of motors in use, shipping mines.....                          | 381        | 316        |
| Number of mines in which mining machines are used.....                | 139        | 126        |
| Number of mining machines in use.....                                 | 1,581      | 1,430      |
| Number of tons undercut by machines.....                              | 25,550,019 | 19,998,259 |
| Number of tons mined by hand.....                                     | 31,964,221 | 30,166,840 |
| Average number of miners employed during the year.....                | 39,149     | 39,912     |
| Average number of other employees underground, men.....               | 31,687     | 30,052     |
| Average number of boys employed underground.....                      | 1,526      | 1,009      |
| Average number of employees above ground.....                         | 7,049      | 6,437      |
| Total number of employees.....  | 79,411     | 77,410     |
| Average price paid per gross ton for hand mining, shipping mines..... | \$0.636    | \$0.627    |

*Summary—Concluded.*

| Summary.   | 1912.     | 1911.     |
|--|-----------|-----------|
| Average price paid per gross ton for machine mining.....         | \$0.496   | \$0.494   |
| Number of kegs of powder used for blasting coal.....             | 1,313,448 | 1,240,293 |
| Number of kegs of powder used for other purposes.....            | 3,040     | 3,568     |
| Number of pounds permissible explosive.....                      | 328,075   | 243,099   |
| Number of men accidentally killed.....                           | 180       | 157       |
| Number of men injured so as to lose a month or more of time..... | 800       | 709       |
| Number of gross tons mined to each life lost.....                | 319,524   | 319,523   |
| Number of employees to each life lost.....                       | 441       | 493       |
| Number of deaths per 1,000 employed.....                         | 2.26      | 2.03      |
| Number of gross tons mined to each man injured.....              | 71,893    | 70,754    |
| Number of employees to each man injured.....                     | 99        | 109       |

## CLASSIFICATION OF MINES.

The classification into shipping mines and local mines is observed in the tables as heretofore.

Table 1 gives the whole number of mines, men and tons for the State, and the same showing for the shipping and local mines.

The increase in the number of mines is 4 per cent; the number of men increased 2.6 per cent, and the increase in tonnage is 14.6 per cent.

There was a decrease of seven in the number of shipping mines, an increase of 1,899 in the number of men employed, and the output was increased 5,931,596 tons.

TABLE 1—*Mines, men and tons, shipping and local mines, by districts—1912.*

| Districts.    | All mines. |        |            | Shipping mines. |        |            | Local mines. |       |           |
|---------------|------------|--------|------------|-----------------|--------|------------|--------------|-------|-----------|
|               | Mines.     | Men.   | Tons.      | Mines.          | Men.   | Tons.      | Mines.       | Men.  | Tons.     |
| First.....    | 60         | 5,936  | 2,612,556  | 24              | 5,437  | 2,351,330  | 36           | 499   | 261,226   |
| Second.....   | 105        | 5,088  | 2,250,393  | 13              | 4,529  | 2,051,523  | 92           | 559   | 198,870   |
| Third.....    | 101        | 5,264  | 3,015,086  | 32              | 4,871  | 2,767,346  | 69           | 393   | 247,740   |
| Fourth.....   | 186        | 4,095  | 2,471,286  | 20              | 3,540  | 2,333,758  | 166          | 555   | 137,528   |
| Fifth.....    | 71         | 7,018  | 5,174,966  | 34              | 6,707  | 5,002,440  | 37           | 311   | 172,526   |
| Sixth.....    | 40         | 8,259  | 6,014,872  | 35              | 8,126  | 5,928,518  | 5            | 133   | 86,354    |
| Seventh.....  | 30         | 7,377  | 7,201,251  | 23              | 7,322  | 7,170,963  | 7            | 55    | 30,288    |
| Eighth.....   | 40         | 7,415  | 5,854,645  | 29              | 7,331  | 5,801,039  | 11           | 84    | 53,606    |
| Ninth.....    | 75         | 5,856  | 4,516,548  | 58              | 5,701  | 4,409,341  | 17           | 155   | 107,207   |
| Tenth.....    | 65         | 5,204  | 3,091,428  | 40              | 5,061  | 3,023,344  | 25           | 143   | 68,084    |
| Eleventh..... | 57         | 9,377  | 8,220,784  | 38              | 9,321  | 8,198,472  | 19           | 56    | 22,312    |
| Twelfth.....  | 49         | 8,522  | 7,090,425  | 34              | 8,461  | 7,058,621  | 15           | 61    | 31,804    |
| The State..   | 879        | 79,411 | 57,514,240 | 380             | 76,407 | 56,096,695 | 499          | 3,004 | 1,417,545 |



Table 2 gives the percentages by districts of the mines, men and tons for all mines and shipping and local mines.

The shipping mines are 43.23 per cent of the whole number, employing 96.22 per cent of the men and producing 97.5 per cent of the output.

TABLE 2—*Percentages of mines, men and tons, all mines, and of shipping and local mines—1912.*

| Districts.     | Percentages. |        |        |                 |       |       |              |       |       |
|----------------|--------------|--------|--------|-----------------|-------|-------|--------------|-------|-------|
|                | All mines.   |        |        | Shipping mines. |       |       | Local mines. |       |       |
|                | Mines.       | Men.   | Tons.  | Mines.          | Men.  | Tons. | Mines.       | Men.  | Tons. |
| First.....     | 6.82         | 7.47   | 4.54   | 40.00           | 91.59 | 90.00 | 60.00        | 8.41  | 10.00 |
| Second.....    | 11.94        | 6.41   | 3.91   | 12.38           | 89.01 | 91.16 | 87.62        | 10.99 | 8.84  |
| Third.....     | 11.49        | 6.63   | 5.24   | 31.68           | 92.53 | 91.12 | 68.32        | 7.47  | 8.88  |
| Fourth.....    | 21.16        | 5.16   | 4.29   | 10.75           | 86.45 | 94.43 | 89.25        | 13.55 | 5.57  |
| Fifth.....     | 8.08         | 8.84   | 8.99   | 47.89           | 95.56 | 96.67 | 52.11        | 4.44  | 3.33  |
| Sixth.....     | 4.55         | 10.40  | 10.45  | 87.50           | 98.39 | 98.56 | 12.50        | 1.61  | 1.44  |
| Seventh.....   | 3.41         | 9.29   | 12.57  | 76.67           | 99.25 | 99.58 | 23.33        | 0.75  | 1.42  |
| Eighth.....    | 4.55         | 9.34   | 10.17  | 72.50           | 98.87 | 99.08 | 27.50        | 1.13  | 0.92  |
| Ninth.....     | 8.54         | 7.37   | 7.85   | 77.33           | 97.35 | 97.62 | 22.67        | 2.65  | 2.38  |
| Tenth.....     | 7.39         | 6.55   | 5.37   | 61.54           | 97.25 | 97.80 | 38.46        | 2.75  | 2.20  |
| Eleventh.....  | 6.49         | 11.81  | 14.29  | 66.66           | 99.40 | 99.72 | 33.34        | 0.60  | 0.28  |
| Twelfth.....   | 5.58         | 10.73  | 12.33  | 69.38           | 99.28 | 99.55 | 30.62        | 0.72  | 0.45  |
| The State..... | 100.00       | 100.00 | 100.00 | 43.23           | 96.22 | 97.52 | 56.77        | 3.78  | 2.48  |

Table 3 shows the number of mines, men and tons for a series of twenty years—1893-1912.

At the bottom of the table is a comparison of 1893 and 1912, showing the increase or decrease in whole numbers and percentages.

TABLE 3—*All mines, men and tons and shipping and local mines for twenty years.*

| Year.                       | Total. |        |            | Shipping. |        |            | Local. |        |           |
|-----------------------------|--------|--------|------------|-----------|--------|------------|--------|--------|-----------|
|                             | Mines. | Men.   | Tons.      | Mines.    | Men.   | Tons.      | Mines. | Men.   | Tons.     |
| 1893.....                   | 788    | 35,390 | 19,949,564 | 310       | 28,737 | 19,257,682 | 478    | 6,653  | 691,882   |
| 1894.....                   | 836    | 38,477 | 17,113,576 | 319       | 31,243 | 16,106,613 | 517    | 7,234  | 1,006,963 |
| 1895.....                   | 874    | 38,630 | 17,735,864 | 319       | 31,174 | 16,578,890 | 555    | 7,456  | 1,156,974 |
| 1896.....                   | 862    | 37,032 | 19,786,626 | 330       | 28,185 | 18,263,056 | 532    | 8,847  | 1,523,570 |
| 1897.....                   | 853    | 33,788 | 20,072,758 | 310       | 31,322 | 19,386,573 | 543    | 2,466  | 686,185   |
| 1898.....                   | 881    | 35,026 | 18,599,299 | 329       | 32,297 | 17,655,561 | 552    | 2,729  | 943,738   |
| 1899.....                   | 889    | 36,991 | 23,434,445 | 323       | 34,307 | 22,531,356 | 566    | 2,684  | 903,089   |
| 1900.....                   | 920    | 39,384 | 25,153,929 | 323       | 36,298 | 24,056,996 | 597    | 3,086  | 1,096,933 |
| 1901.....                   | 915    | 44,143 | 26,635,319 | 331       | 40,926 | 25,526,816 | 584    | 3,217  | 1,108,503 |
| 1902.....                   | 915    | 46,005 | 30,021,300 | 332       | 42,807 | 28,824,750 | 583    | 3,198  | 1,196,550 |
| 1903.....                   | 933    | 49,814 | 34,955,400 | 353       | 46,494 | 33,676,537 | 580    | 3,320  | 1,278,863 |
| 1904.....                   | 932    | 54,774 | 37,077,897 | 350       | 51,384 | 35,779,517 | 552    | 3,390  | 1,298,380 |
| 1905.....                   | 990    | 59,230 | 37,183,374 | 397       | 55,743 | 35,956,543 | 593    | 3,487  | 1,226,831 |
| 1906.....                   | 1,018  | 62,283 | 38,317,581 | 419       | 58,851 | 37,133,811 | 599    | 3,432  | 1,194,770 |
| 1907.....                   | 933    | 66,714 | 47,798,621 | 411       | 63,154 | 46,436,839 | 522    | 3,560  | 1,361,782 |
| 1908.....                   | 922    | 70,841 | 49,272,452 | 407       | 67,470 | 47,809,730 | 515    | 3,371  | 1,462,722 |
| 1909.....                   | 886    | 72,733 | 49,163,710 | 384       | 69,518 | 47,958,562 | 502    | 3,215  | 1,205,148 |
| 1910.....                   | 881    | 74,634 | 48,717,853 | 390       | 71,520 | 47,225,201 | 491    | 3,114  | 1,492,652 |
| 1911.....                   | 845    | 77,410 | 50,165,099 | 387       | 74,508 | 48,758,657 | 458    | 2,902  | 1,406,442 |
| 1912.....                   | 879    | 79,411 | 57,514,240 | 380       | 76,407 | 56,096,695 | 499    | 3,004  | 1,417,545 |
| Increase.....               | 91     | 44,021 | 37,564,676 | 70        | 47,670 | 36,839,013 | 21     | *2,649 | 725,663   |
| Percentage of increase..... | 11.55  | 124.39 | 188.30     | 22.58     | 165.88 | 191.33     | 4.39   | *54.85 | 108.82    |

\* Decrease.

Table 4 gives for twenty years the number of all mines, men and tons and the per cent that the shipping and local mines bear to the whole number each year of this period.

TABLE 4—*Mines, men and tons, with percentages of shipping and local mines for twenty years—1893-1912.*

| Years.    | Total—all mines. |        |            | Percentages. |       |       |        |       |       |
|-----------|------------------|--------|------------|--------------|-------|-------|--------|-------|-------|
|           |                  |        |            | Shipping.    |       |       | Local. |       |       |
|           | Mines.           | Men.   | Tons.      | Mines.       | Men.  | Tons. | Mines. | Men.  | Tons. |
| 1893..... | 788              | 35,390 | 19,949,564 | 39.34        | 81.20 | 96.53 | 60.66  | 18.80 | 3.47  |
| 1894..... | 836              | 38,477 | 17,113,576 | 38.16        | 81.20 | 94.10 | 61.84  | 18.80 | 5.90  |
| 1895..... | 855              | 38,630 | 17,735,864 | 36.50        | 80.70 | 93.48 | 63.50  | 19.30 | 6.52  |
| 1896..... | 862              | 37,032 | 19,786,626 | 36.62        | 76.11 | 96.26 | 63.38  | 23.89 | 3.47  |
| 1897..... | 853              | 33,788 | 20,072,758 | 36.38        | 92.72 | 96.53 | 63.62  | 7.28  | 2.47  |
| 1898..... | 881              | 35,026 | 18,599,299 | 37.49        | 92.30 | 94.93 | 62.51  | 7.70  | 5.07  |
| 1899..... | 889              | 36,991 | 23,434,445 | 36.33        | 92.74 | 96.15 | 63.67  | 7.26  | 3.85  |
| 1900..... | 920              | 39,384 | 25,153,929 | 35.11        | 92.16 | 95.64 | 64.89  | 7.84  | 4.36  |
| 1901..... | 915              | 44,143 | 26,635,319 | 36.17        | 92.71 | 95.84 | 63.83  | 7.29  | 4.16  |
| 1902..... | 915              | 46,005 | 30,021,300 | 36.28        | 93.05 | 96.01 | 63.72  | 6.95  | 3.99  |
| 1903..... | 933              | 49,814 | 34,955,400 | 37.83        | 93.34 | 96.34 | 62.17  | 6.66  | 3.66  |
| 1904..... | 932              | 54,774 | 37,077,897 | 40.77        | 93.81 | 96.50 | 59.23  | 6.19  | 3.50  |
| 1905..... | 990              | 59,230 | 37,183,374 | 40.10        | 94.11 | 96.70 | 59.90  | 5.89  | 3.30  |
| 1906..... | 1,018            | 62,283 | 38,317,581 | 41.16        | 94.49 | 96.88 | 58.84  | 5.51  | 3.12  |
| 1907..... | 933              | 66,714 | 47,798,621 | 44.05        | 94.66 | 97.15 | 55.95  | 5.34  | 2.85  |
| 1908..... | 922              | 70,841 | 49,272,452 | 44.14        | 95.24 | 97.03 | 55.86  | 4.76  | 2.97  |
| 1909..... | 886              | 72,733 | 49,163,710 | 43.34        | 95.58 | 97.55 | 56.66  | 4.42  | 2.45  |
| 1910..... | 881              | 74,634 | 48,717,853 | 44.27        | 95.83 | 96.94 | 55.73  | 4.17  | 3.06  |
| 1911..... | 845              | 77,410 | 50,165,099 | 45.80        | 96.25 | 97.20 | 54.20  | 3.75  | 2.80  |
| 1912..... | 879              | 79,411 | 57,514,240 | 43.23        | 96.22 | 97.52 | 56.77  | 3.78  | 2.48  |

## GROUPING OF MINES.

Table 5 is a classification of the mines and tons by districts into six groups. This table reveals that the mines of largest class produced more than 61 per cent of the total tonnage although less than 12 per cent of the whole number of mines.

TABLE 5—*Grouping of mines by tonnage and districts—1912.*

| Districts.    | Tonnage and mines producing— |         |                         |         |                          |           |                           |           |                            |            |                   |            |
|---------------|------------------------------|---------|-------------------------|---------|--------------------------|-----------|---------------------------|-----------|----------------------------|------------|-------------------|------------|
|               | Under 1,000.                 |         | 1,000 but under 10,000. |         | 10,000 but under 50,000. |           | 50,000 but under 100,000. |           | 100,000 but under 200,000. |            | 200,000 and over. |            |
|               | No.                          | Tons.   | No.                     | Tons.   | No.                      | Tons.     | No.                       | Tons.     | No.                        | Tons.      | No.               | Tons.      |
| First.....    | 13                           | 5,613   | 22                      | 81,447  | 6                        | 173,185   | 8                         | 613,853   | 9                          | 1,327,344  | 2                 | 411,114    |
| Second.....   | 46                           | 19,230  | 43                      | 128,073 | 6                        | 120,928   | .....                     | .....     | 4                          | 466,545    | 6                 | 1,515,617  |
| Third.....    | 28                           | 9,152   | 38                      | 141,211 | 21                       | 599,996   | 4                         | 269,239   | 6                          | 768,070    | 4                 | 1,227,418  |
| Fourth.....   | 128                          | 54,324  | 39                      | 93,188  | 4                        | 127,963   | 5                         | 381,947   | 7                          | 1,032,205  | 3                 | 781,659    |
| Fifth.....    | 11                           | 5,451   | 26                      | 9,173   | 10                       | 292,025   | 8                         | 496,271   | 6                          | 918,842    | 10                | 3,372,204  |
| Sixth.....    | 1                            | 850     | 2                       | 2,439   | 5                        | 116,830   | 10                        | 807,121   | 12                         | 1,705,922  | 10                | 3,381,710  |
| Seventh.....  | 3                            | 1,644   | 3                       | 11,170  | 3                        | 92,374    | 2                         | 171,429   | 3                          | 412,620    | 16                | 6,512,014  |
| Eighth.....   | 4                            | 2,559   | 5                       | 21,341  | 6                        | 141,780   | 5                         | 377,023   | 9                          | 1,516,697  | 11                | 3,795,245  |
| Ninth.....    | 2                            | 922     | 19                      | 100,142 | 32                       | 786,865   | 10                        | 680,931   | 7                          | 974,479    | 5                 | 1,973,209  |
| Tenth.....    | 10                           | 4,243   | 16                      | 53,257  | 18                       | 398,975   | 9                         | 675,874   | 10                         | 1,520,095  | 2                 | 438,984    |
| Eleventh..... | 12                           | 4,957   | 7                       | 17,355  | 7                        | 157,806   | 5                         | 387,363   | 5                          | 749,847    | 21                | 6,903,456  |
| Twelfth.....  | 8                            | 2,789   | 8                       | 32,110  | 1                        | 38,363    | 4                         | 273,509   | 13                         | 1,931,424  | 15                | 4,812,230  |
| The State..   | 266                          | 111,734 | 228                     | 771,906 | 119                      | 3,047,090 | 70                        | 5,134,560 | 91                         | 13,324,090 | 105               | 35,124,860 |

Table 6 classifies the mines, men and tons by districts into three groups. The total of each group and the percentage is shown at bottom of the table.

TABLE 6—*Grouping of mines, men and tons into three classes, by districts—all mines.*

| Districts.      | Less than 50,000 tons. |       |           | 50,000 tons and less than 100,000. |       |           | 100,000 tons and over. |        |            |
|-----------------|------------------------|-------|-----------|------------------------------------|-------|-----------|------------------------|--------|------------|
|                 | Mines.                 | Men.  | Tons.     | Mines.                             | Men.  | Tons.     | Mines.                 | Men.   | Tons.      |
| First.....      | 41                     | 960   | 260,245   | 8                                  | 1,414 | 613,853   | 11                     | 3,562  | 1,738,458  |
| Second.....     | 95                     | 716   | 268,231   | .....                              | ..... | .....     | 10                     | 4,372  | 1,982,162  |
| Third.....      | 87                     | 1,326 | 750,359   | 4                                  | 469   | 269,239   | 10                     | 3,469  | 1,995,485  |
| Fourth.....     | 171                    | 976   | 275,475   | 5                                  | 638   | 381,947   | 10                     | 2,481  | 1,813,864  |
| Fifth.....      | 47                     | 944   | 387,649   | 8                                  | 790   | 496,271   | 16                     | 5,284  | 4,291,046  |
| Sixth.....      | 8                      | 383   | 120,119   | 10                                 | 1,402 | 807,121   | 22                     | 6,474  | 5,087,632  |
| Seventh.....    | 9                      | 272   | 105,188   | 2                                  | 268   | 171,429   | 19                     | 6,837  | 6,924,634  |
| Eighth.....     | 15                     | 283   | 165,680   | 5                                  | 774   | 377,023   | 20                     | 6,358  | 5,311,942  |
| Ninth.....      | 53                     | 1,964 | 887,929   | 10                                 | 884   | 680,931   | 12                     | 3,008  | 2,947,688  |
| Tenth.....      | 44                     | 1,363 | 456,475   | 9                                  | 1,084 | 675,874   | 12                     | 2,757  | 1,959,079  |
| Eleventh.....   | 26                     | 445   | 180,118   | 5                                  | 727   | 387,363   | 26                     | 8,205  | 7,653,303  |
| Twelfth.....    | 17                     | 222   | 73,262    | 4                                  | 575   | 273,509   | 28                     | 7,725  | 6,743,654  |
| The State..     | 613                    | 9,854 | 3,930,730 | 70                                 | 9,025 | 5,134,560 | 196                    | 60,532 | 48,448,950 |
| Percentages.... | 69.85                  | 12.41 | 7.02      | 7.85                               | 11.36 | 8.76      | 22.30                  | 76.23  | 84.22      |

Table 7 shows the percentages of the items in each of the three groups given in Table 6.

TABLE 7.—*Percentages of mines, men and tons, grouped into three classes, by districts.*

| Districts.     | Percentages of mines, men and tons—mines prodneing— |        |        |                               |        |        |                   |        |        |
|----------------|---|--------|--------|-------------------------------|--------|--------|-------------------|--------|--------|
|                | Less than 50,000 tons.                              |        |        | 50,000 and less than 100,000. |        |        | 100,000 and over. |        |        |
|                | Mines.  | Men.   | Tons.  | Mines.                        | Men.   | Tons.  | Mines.            | Men.   | Tons.  |
| First.....     | 6.68  | 9.74   | 6.62   | 11.40                         | 15.66  | 11.95  | 5.61              | 5.90   | 3.58   |
| Second.....    | 15.47   | 7.27   | 6.83   |                               |        |        | 5.10              | 7.24   | 4.09   |
| Third.....     | 14.50   | 13.46  | 19.09  | 5.72                          | 5.19   | 5.24   | 5.10              | 5.74   | 4.12   |
| Fourth.....    | 27.85   | 9.91   | 7.01   | 7.15                          | 7.07   | 7.44   | 5.10              | 4.11   | 3.74   |
| Fifth.....     | 7.49  | 9.58   | 9.78   | 11.40                         | 8.75   | 9.67   | 8.16              | 8.75   | 8.86   |
| Sixth.....     | 1.30  | 3.89   | 3.06   | 14.30                         | 15.53  | 15.72  | 11.22             | 10.72  | 10.50  |
| Seventh.....   | 1.47  | 2.76   | 2.68   | 2.86                          | 2.97   | 3.34   | 9.70              | 11.09  | 14.29  |
| Eighth.....    | 2.44  | 2.86   | 4.41   | 7.15                          | 8.50   | 7.35   | 10.20             | 10.53  | 10.96  |
| Ninth.....     | 8.63  | 19.93  | 22.58  | 14.29                         | 9.80   | 13.26  | 6.12              | 4.98   | 6.09   |
| Tenth.....     | 7.17  | 13.83  | 11.50  | 12.86                         | 12.02  | 13.16  | 6.12              | 4.56   | 4.05   |
| Eleventh.....  | 4.23  | 4.52   | 4.58   | 7.15                          | 8.06   | 7.54   | 13.27             | 13.59  | 15.80  |
| Twelfth.....   | 2.77  | 2.25   | 1.86   | 5.72                          | 6.37   | 5.33   | 14.30             | 12.79  | 13.92  |
| The State..... | 100.00  | 100.00 | 100.00 | 100.00                        | 100.00 | 100.00 | 100.00            | 100.00 | 100.00 |

Table 8 is a classification of the mines as to tonnage and shows the number of mines, men and tons in each class.

TABLE 8.—*Classification of mines as to tonnage, with percentages of mines, men and tons in each class—1912.*

| Mines producing—                   | Number of mines. | Number of men. | Tons.      | Percentages of— |        |        |
|------------------------------------|------------------|----------------|------------|-----------------|--------|--------|
|                                    |                  |                |            | Mines.          | Men.   | Tons.  |
| Less than 1,000 tons.....          | 266              | 740            | 111,734    | 30.27           | 0.94   | 0.20   |
| 1,000 and less than 10,000.....    | 228              | 2,378          | 771,906    | 25.94           | 2.99   | 1.34   |
| 10,000 and less than 50,000.....   | 119              | 6,736          | 3,047,090  | 13.54           | 8.48   | 5.47   |
| 50,000 and less than 100,000.....  | 70               | 9,025          | 5,134,560  | 7.77            | 11.36  | 8.76   |
| 100,000 and less than 200,000..... | 91               | 19,669         | 13,324,090 | 10.53           | 24.77  | 23.16  |
| 200,000 and over.....              | 105              | 40,863         | 25,124,860 | 11.95           | 51.46  | 61.07  |
| Total.....                         | 879              | 79,411         | 57,514,240 | 100.00          | 100.00 | 100.00 |

Table 9 is a grouping of the mines by tonnage for a series of thirty years. The increase or decrease is shown at the bottom of the table.

TABLE 9—*Number of mines in specified groups of tonnage for a series of thirty years—1884-1912.*

| Year.                    | Number of mines producing— |                              |                               |                                |                                 |                        | Total mines |
|--------------------------|----------------------------|------------------------------|-------------------------------|--------------------------------|---------------------------------|------------------------|-------------|
|                          | Under 1,000 tons.          | 1,000 and under 10,000 tons. | 10,000 and under 50,000 tons. | 50,000 and under 100,000 tons. | 100,000 and under 200,000 tons. | 200,000 tons and over. |             |
| 1883.....                | 209                        | 233                          | 133                           | 39                             | 10                              | 15                     | 689         |
| 1884.....                | 262                        | 273                          | 148                           | 38                             | 16                              | 4                      | 741         |
| 1885.....                | 286                        | 290                          | 143                           | 40                             | 13                              | 6                      | 778         |
| 1886.....                | 316                        | 280                          | 135                           | 44                             | 11                              | 3                      | 789         |
| 1887.....                | 320                        | 278                          | 141                           | 42                             | 18                              | 2                      | 801         |
| 1888.....                | 327                        | 272                          | 151                           | 47                             | 20                              | 5                      | 822         |
| 1889.....                | 321                        | 316                          | 139                           | 55                             | 20                              | 3                      | 854         |
| 1890.....                | 398                        | 301                          | 155                           | 54                             | 24                              | 4                      | 936         |
| 1891.....                | 402                        | 260                          | 161                           | 52                             | 37                              | 6                      | 918         |
| 1892.....                | 332                        | 239                          | 151                           | 65                             | 46                              | 6                      | 839         |
| 1893.....                | 282                        | 232                          | 140                           | 75                             | 47                              | 12                     | 788         |
| 1894.....                | 312                        | 252                          | 161                           | 61                             | 44                              | 6                      | 836         |
| 1895.....                | 319                        | 276                          | 145                           | 61                             | 45                              | 9                      | 855         |
| 1896.....                | 330                        | 280                          | 128                           | 63                             | 45                              | 16                     | 862         |
| 1897.....                | 346                        | 250                          | 120                           | 79                             | 41                              | 17                     | 853         |
| 1898.....                | 351                        | 244                          | 151                           | 86                             | 42                              | 7                      | 881         |
| 1899.....                | 316                        | 261                          | 123                           | 77                             | 57                              | 25                     | 889         |
| 1900.....                | 340                        | 295                          | 123                           | 70                             | 65                              | 27                     | 920         |
| 1901.....                | 313                        | 308                          | 124                           | 79                             | 58                              | 33                     | 915         |
| 1902.....                | 314                        | 263                          | 152                           | 76                             | 72                              | 38                     | 915         |
| 1903.....                | 313                        | 293                          | 120                           | 75                             | 87                              | 45                     | 933         |
| 1904.....                | 301                        | 275                          | 140                           | 72                             | 98                              | 46                     | 932         |
| 1905.....                | 321                        | 299                          | 147                           | 83                             | 88                              | 52                     | 990         |
| 1906.....                | 336                        | 282                          | 167                           | 89                             | 97                              | 47                     | 1,018       |
| 1907.....                | 260                        | 262                          | 145                           | 91                             | 95                              | 80                     | 933         |
| 1908.....                | 248                        | 256                          | 146                           | 98                             | 92                              | 82                     | 922         |
| 1909.....                | 270                        | 239                          | 134                           | 66                             | 90                              | 87                     | 886         |
| 1910.....                | 261                        | 239                          | 125                           | 87                             | 94                              | 75                     | 881         |
| 1911.....                | 235                        | 213                          | 138                           | 82                             | 101                             | 76                     | 845         |
| 1912.....                | 266                        | 228                          | 119                           | 70                             | 91                              | 105                    | 879         |
| Increase in 30 years.... | 57                         | *5                           | *14                           | 31                             | 81                              | 90                     | 240         |

\* Decrease.

Table 10 is the percentages of the same grouping of mines shown in Table 9. The per cent of increase or decrease of 1912 over 1883 is also shown.

TABLE 10—*Percentage of mines in specified grouping of tonnage for a series of thirty years.*

| Year.                                | Total. | Percentages of mines producing— |                              |                               |                                |                                 |                        |
|--------------------------------------|--------|---------------------------------|------------------------------|-------------------------------|--------------------------------|---------------------------------|------------------------|
|                                      |        | Under 1,000 tons.               | 1,000 and under 10,000 tons. | 10,000 and under 50,000 tons. | 50,000 and under 100,000 tons. | 100,000 and under 200,000 tons. | 200,000 tons and over. |
| 1883.....                            | 639    | 32.71                           | 36.47                        | 20.81                         | 6.10                           | 1.56                            | 2.35                   |
| 1884.....                            | 741    | 35.36                           | 36.84                        | 19.97                         | 5.13                           | 2.16                            | .54                    |
| 1885.....                            | 778    | 36.76                           | 37.27                        | 18.38                         | 5.14                           | 2.32                            | .13                    |
| 1886.....                            | 789    | 40.05                           | 35.49                        | 17.11                         | 5.58                           | 1.39                            | .38                    |
| 1887.....                            | 801    | 39.95                           | 34.71                        | 17.60                         | 5.24                           | 2.25                            | .25                    |
| 1888.....                            | 822    | 39.79                           | 33.09                        | 18.37                         | 5.71                           | 2.43                            | .61                    |
| 1889.....                            | 854    | 37.59                           | 37.00                        | 16.28                         | 6.44                           | 2.34                            | .35                    |
| 1890.....                            | 936    | 42.52                           | 32.16                        | 16.56                         | 5.77                           | 2.56                            | .43                    |
| 1891.....                            | 918    | 43.79                           | 28.32                        | 17.54                         | 5.67                           | 4.03                            | .65                    |
| 1892.....                            | 839    | 39.69                           | 29.44                        | 17.76                         | 7.03                           | 4.89                            | 1.19                   |
| 1893.....                            | 788    | 35.91                           | 29.44                        | 16.24                         | 10.92                          | 5.71                            | 1.78                   |
| 1894.....                            | 836    | 37.08                           | 29.07                        | 19.62                         | 8.25                           | 5.26                            | .72                    |
| 1895.....                            | 855    | 36.43                           | 33.29                        | 16.65                         | 7.33                           | 5.25                            | 1.05                   |
| 1896.....                            | 862    | 38.90                           | 30.66                        | 14.88                         | 8.35                           | 5.61                            | 1.60                   |
| 1897.....                            | 853    | 40.56                           | 29.31                        | 14.07                         | 9.26                           | 4.81                            | 1.99                   |
| 1898.....                            | 881    | 39.84                           | 27.70                        | 17.14                         | 9.76                           | 4.77                            | .79                    |
| 1899.....                            | 889    | 38.92                           | 29.36                        | 13.84                         | 8.66                           | 6.41                            | 2.81                   |
| 1900.....                            | 920    | 36.96                           | 32.07                        | 13.37                         | 7.61                           | 7.06                            | 2.93                   |
| 1901.....                            | 915    | 34.21                           | 33.66                        | 13.55                         | 8.63                           | 6.34                            | 3.61                   |
| 1902.....                            | 915    | 34.32                           | 28.74                        | 16.61                         | 8.31                           | 7.87                            | 4.15                   |
| 1903.....                            | 933    | 33.55                           | 31.40                        | 12.86                         | 8.04                           | 9.33                            | 4.82                   |
| 1904.....                            | 932    | 32.30                           | 29.50                        | 15.02                         | 7.73                           | 10.51                           | 4.94                   |
| 1905.....                            | 990    | 32.43                           | 30.20                        | 14.85                         | 8.38                           | 8.89                            | 5.25                   |
| 1906.....                            | 1,018  | 33.01                           | 27.70                        | 16.40                         | 8.74                           | 9.53                            | 4.62                   |
| 1907.....                            | 933    | 27.82                           | 28.08                        | 15.56                         | 9.76                           | 10.20                           | 8.58                   |
| 1908.....                            | 922    | 26.90                           | 27.77                        | 15.84                         | 10.63                          | 9.97                            | 8.82                   |
| 1909.....                            | 886    | 30.47                           | 26.98                        | 15.12                         | 7.45                           | 10.16                           | 9.82                   |
| 1910.....                            | 881    | 29.63                           | 27.12                        | 14.19                         | 9.88                           | 10.68                           | 8.50                   |
| 1911.....                            | 845    | 27.81                           | 25.21                        | 16.33                         | 9.71                           | 11.95                           | 8.99                   |
| 1912.....                            | 879    | 30.27                           | 25.95                        | 13.54                         | 7.77                           | 10.53                           | 11.95                  |
| Percentage increase in 30 years..... | 37.6   | 28.2                            | *2.58                        | *9.77                         | 74.36                          | 810.0                           | 600.0                  |

\* Decrease.



Table 11 shows the output of the mines for a series of twenty-one years by groups. It will be seen, by referring to the line at the bottom of the table, that the tonnage of the first three groups has materially decreased while that of the larger mines has greatly increased.

TABLE 11—*Grouping of mines by tonnage for a series of twenty-one years.*

| Year.  | Tonnage of mines producing— |                               |                                |                                 |                                  |                      |
|--|-----------------------------|-------------------------------|--------------------------------|---------------------------------|----------------------------------|----------------------|
|  | Under<br>1,000 tons.        | 1,000<br>and under<br>10,000. | 10,000<br>and under<br>50,000. | 50,000<br>and under<br>100,000. | 100,000<br>and under<br>200,000. | 200,000<br>and over. |
|  | Tons.                       | Tons.                         | Tons.                          | Tons.                           | Tons.                            | Tons.                |
| 1892.....  | 147,777                     | 1,058,078                     | 4,134,259                      | 4,293,472                       | 5,855,091                        | 2,373,599            |
| 1893.....  | 121,636                     | 726,199                       | 3,132,499                      | 6,179,487                       | 6,291,965                        | 3,497,778            |
| 1894.....  | 137,507                     | 702,623                       | 4,022,545                      | 4,742,257                       | 6,035,094                        | 1,473,550            |
| 1895.....  | 151,430                     | 866,019                       | 3,609,918                      | 4,416,969                       | 6,346,937                        | 2,344,591            |
| 1896.....  | 141,690                     | 807,148                       | 3,265,822                      | 5,049,694                       | 6,557,545                        | 3,962,435            |
| 1897.....  | 150,445                     | 773,526                       | 3,162,713                      | 5,693,193                       | 5,778,374                        | 4,514,507            |
| 1898.....  | 161,622                     | 692,149                       | 3,785,962                      | 6,351,513                       | 5,898,596                        | 1,709,457            |
| 1899.....  | 137,582                     | 790,948                       | 2,877,117                      | 5,618,924                       | 7,443,023                        | 6,566,851            |
| 1900.....  | 154,318                     | 969,424                       | 3,255,570                      | 5,009,326                       | 8,995,963                        | 6,769,328            |
| 1901.....  | 227,419                     | 838,989                       | 3,393,827                      | 5,795,953                       | 8,008,897                        | 8,370,234            |
| 1902.....  | 161,058                     | 763,597                       | 3,694,890                      | 5,376,350                       | 9,923,538                        | 10,101,867           |
| 1903.....  | 126,678                     | 871,342                       | 3,396,343                      | 5,445,195                       | 12,387,437                       | 12,728,405           |
| 1904.....  | 126,397                     | 934,042                       | 3,602,660                      | 5,200,551                       | 13,763,975                       | 13,480,272           |
| 1905.....  | 129,430                     | 993,394                       | 3,852,565                      | 5,868,103                       | 12,158,090                       | 14,181,792           |
| 1906.....  | 127,232                     | 949,073                       | 5,097,972                      | 6,116,018                       | 13,462,256                       | 12,565,030           |
| 1907.....  | 108,875                     | 827,337                       | 3,907,170                      | 6,600,264                       | 13,376,164                       | 22,978,809           |
| 1908.....  | 95,427                      | 793,236                       | 3,879,000                      | 7,130,739                       | 13,181,385                       | 24,192,665           |
| 1909.....  | 106,124                     | 782,850                       | 3,612,391                      | 4,939,139                       | 12,609,581                       | 27,113,625           |
| 1910.....  | 97,266                      | 932,300                       | 3,305,177                      | 6,353,951                       | 13,911,460                       | 24,117,699           |
| 1911.....  | 93,573                      | 728,936                       | 3,901,966                      | 6,000,914                       | 14,455,906                       | 24,983,804           |
| 1912.....  | 111,734                     | 771,906                       | 3,047,090                      | 5,134,560                       | 13,324,090                       | 35,124,860           |
| Increase (+) or decrease (—)<br>in 21 years..... | —36,043                     | —286,172                      | —1,087,169                     | +841,088                        | +7,468,999                       | +32,751,261          |

Table 12 presents the total tonnage each year from 1892 to 1912, with the per cent produced by each group.

TABLE 12—*Percentages of tons produced by specified grouping of tonnage for twenty-one years.*

| Year.   | Total tons. | Percentage of tons produced by mines producing— |                         |                          |                           |                            |                   |
|---|-------------|---|-------------------------|--------------------------|---------------------------|----------------------------|-------------------|
|   |             | Under 1,000.                                    | 1,000 and under 10,000. | 10,000 and under 50,000. | 50,000 and under 100,000. | 100,000 and under 200,000. | 200,000 and over. |
| 1892.....   | 17,862,276  | .82   | 5.92                    | 23.15                    | 24.04                     | 32.78                      | 13.29             |
| 1893.....   | 19,949,564  | .61   | 3.64                    | 15.70                    | 30.98                     | 31.54                      | 17.53             |
| 1894.....   | 17,113,576  | .80   | 4.11                    | 23.50                    | 27.71                     | 35.26                      | 8.61              |
| 1895.....   | 17,735,864  | .85   | 4.88                    | 20.35                    | 24.91                     | 35.79                      | 13.22             |
| 1896.....   | 19,786,626  | .72   | 4.08                    | 16.51                    | 25.52                     | 33.14                      | 20.03             |
| 1897.....   | 20,072,758  | .75   | 3.85                    | 15.75                    | 28.37                     | 28.79                      | 22.49             |
| 1898.....   | 18,599,299  | .87   | 3.72                    | 20.36                    | 34.15                     | 31.71                      | 9.19              |
| 1899.....   | 23,434,445  | .59   | 3.98                    | 12.28                    | 23.97                     | 31.76                      | 28.02             |
| 1900.....   | 25,153,929  | .61   | 3.86                    | 12.94                    | 19.92                     | 35.76                      | 26.91             |
| 1901.....   | 26,635,319  | .85   | 3.15                    | 12.74                    | 21.76                     | 30.07                      | 31.43             |
| 1902.....   | 30,021,300  | .54   | 2.54                    | 12.31                    | 17.90                     | 33.06                      | 33.65             |
| 1903.....   | 34,955,400  | .36   | 2.49                    | 9.72                     | 15.58                     | 35.44                      | 36.41             |
| 1904.....   | 37,077,897  | .34   | 2.52                    | 9.72                     | 14.03                     | 37.09                      | 36.30             |
| 1905.....   | 37,183,374  | .35   | 2.67                    | 10.36                    | 15.78                     | 32.70                      | 38.14             |
| 1906.....   | 38,317,581  | .33   | 2.48                    | 13.31                    | 15.96                     | 35.13                      | 32.79             |
| 1907.....   | 47,798,621  | .23   | 1.73                    | 8.17                     | 13.81                     | 27.98                      | 48.08             |
| 1908.....   | 49,272,452  | .11   | 1.70                    | 7.87                     | 14.48                     | 26.75                      | 49.10             |
| 1909.....   | 49,163,710  | .22   | 1.59                    | 7.35                     | 10.05                     | 25.64                      | 55.15             |
| 1910.....   | 48,717,853  | .20   | 1.91                    | 6.79                     | 13.04                     | 28.56                      | 49.50             |
| 1911.....   | 50,165,099  | .19   | 1.46                    | 7.78                     | 11.96                     | 28.81                      | 49.80             |
| 1912.....   | 57,514,240  | .20   | 1.34                    | 5.47                     | 8.76                      | 23.16                      | 61.07             |
| Percentage of increase (+) or decrease (—), 21 years..... | +221.43     | —23.67  | —27.14                  | —23.93                   | +17.31                    | +127.60                    | +1,379.81         |

## MINES OF LARGEST OUTPUT.

Table 13 is a list of 105 mines of the largest output, showing the names of the operators, the location of the mines, number of men employed, number of days worked, number of tons produced and the average daily production.

There are twenty-nine more mines in this class this year and the tonnage has increased 10,141,056.

The average production of these mines is 334,522 tons and the average days worked is 208, an average daily production of 1,608 tons for the year.

TABLE 13—*Mines from which more than 200,000 tons of coal have been delivered during the year 1912.*

| No. | Companies.                                  | Location.         | Men. | Days. | Tons.   | Average tons per day. |
|-----|---|-------------------|------|-------|---------|-----------------------|
| 1   | Superior Coal Co., No. 3.....               | Gillespie.....    | 601  | 229   | 837,979 | 3,659                 |
| 2   | Superior Coal Co., No. 2.....               | do.....           | 553  | 228   | 791,835 | 3,473                 |
| 3   | New Staunton Coal Co., No. 1.....           | Livingston.....   | 622  | 195   | 737,632 | 3,783                 |
| 4   | Superior Coal Co., No. 1.....               | Gillespie.....    | 562  | 225   | 673,717 | 2,994                 |
| 5   | Bunson Coal Co., Verm.....                  | Westville.....    | 684  | 262   | 640,664 | 2,445                 |
| 6   | Big Muddy Coal & Iron Co., No. 8.....       | Clifford.....     | 366  | 231   | 570,695 | 2,471                 |
| 7   | St. Louis and O'Fallon Coal Co., No. 2..... | E. St. Louis..... | 580  | 229   | 564,708 | 2,466                 |
| 8   | Bunson Coal Co., No. 4.....                 | Westville.....    | 643  | 263   | 561,169 | 2,134                 |
| 9   | Johnston City Coal Co., No. 1.....          | Johnston City..   | 466  | 240   | 540,236 | 2,251                 |
| 10  | Consolidated Coal Co., No. 14.....          | Staunton.....     | 500  | 199   | 534,485 | 2,686                 |
| 11  | United Coal Mining Co., No. 1.....          | Christopher.....  | 492  | 248   | 524,163 | 2,114                 |
| 12  | O'Gara Coal Co., No. 9.....                 | Harrisburg.....   | 456  | 230   | 523,583 | 2,276                 |
| 13  | Consolidated Coal Co., No. 17.....          | Collinsville..... | 372  | 201   | 516,913 | 2,573                 |
| 14  | Mt. Olive and Staunton Coal Co., No. 2....  | Staunton.....     | 560  | 148   | 506,044 | 3,419                 |
| 15  | Saline Co. Coal Co., No. 2.....             | Ledford.....      | 459  | 238   | 498,223 | 2,093                 |
| 16  | Chi., Wilm., Vermilion Coal Co., No. 1..... | Thayer.....       | 525  | 199   | 486,140 | 2,443                 |
| 17  | Zeigler Dist. Col. Co.....                  | Christopher.....  | 397  | 236   | 475,386 | 2,014                 |
| 18  | Jones and Adams Coal Co., Peerless.....     | Springfield.....  | 509  | 208   | 472,380 | 2,271                 |
| 19  | Consolidated Coal Co., No. 15.....          | Mt. Olive.....    | 415  | 198   | 460,116 | 2,324                 |
| 20  | Sesser Coal Co.....                         | Sesser.....       | 343  | 226   | 424,449 | 1,878                 |
| 21  | Bell-Zoller M. Co., No. 1.....              | Zeigler.....      | 440  | 208   | 423,687 | 2,037                 |
| 22  | Madison Coal Corp., No. 9.....              | Dewmaine.....     | 450  | 178   | 423,556 | 2,380                 |
| 23  | St. Paul Coal Co., No. 1.....               | Granville.....    | 774  | 258   | 413,625 | 1,603                 |
| 24  | Chicago & Carterville Coal Co., A.....      | Herrin.....       | 460  | 198   | 407,420 | 2,057                 |
| 25  | Shoal Creek Coal Co., No. 1.....            | Panama.....       | 426  | 222   | 407,025 | 1,833                 |
| 26  | Springfield Coal Mining Co., No. 2.....     | Riverton.....     | 398  | 192   | 388,937 | 2,026                 |
| 27  | O'Gara Coal Co., No. 3.....                 | Harrisburg.....   | 428  | 200   | 383,685 | 1,918                 |
| 28  | Illinois Midland Coal Co., No. 5.....       | Pawnee.....       | 461  | 213   | 382,588 | 1,796                 |
| 29  | Benton Coal Co., No. 1.....                 | Benton.....       | 400  | 188   | 382,465 | 2,034                 |

Table 13—Continued.

| No. | Companies.                               | Location.       | Men. | Days. | Tons.   | Average<br>tons<br>per day. |
|-----|--|-----------------|------|-------|---------|-----------------------------|
| 30  | Donk Bros. Coal & Coke Co., No. 2.....   | Maryville.....  | 450  | 176   | 380,904 | 2,164                       |
| 31  | Peabody Coal Co., No. 14.....            | Witt.....       | 390  | 201   | 366,937 | 1,826                       |
| 32  | Royal Collieries Co., No. 1.....         | Virden.....     | 380  | 186   | 362,815 | 1,951                       |
| 33  | Marion Co. Coal Co.....                  | Centralia.....  | 330  | 242   | 357,648 | 1,478                       |
| 34  | Madison Coal Corp., No. 6.....           | Divernon.....   | 514  | 132   | 354,650 | 2,687                       |
| 35  | Southern Coal & Mining Co., No. 9.....   | New Baden....   | 382  | 200   | 352,301 | 1,762                       |
| 36  | Sunnyside Coal Co., No. 1.....           | Herrin.....     | 438  | 192   | 342,383 | 1,783                       |
| 37  | Western Coal Mining Co., Bush.....       | Bush.....       | 355  | 259   | 332,693 | 1,285                       |
| 38  | Hart-Williams Coal Co., No. 1.....       | Benton.....     | 463  | 162   | 332,350 | 2,052                       |
| 39  | Southern Coal & Mining Co., No. 8.....   | Belleville..... | 283  | 215   | 331,987 | 1,544                       |
| 40  | Montgomery Co. Coal Co.....              | Hillsboro.....  | 438  | 175   | 329,222 | 1,881                       |
| 41  | Dering Coal Co., No. 2.....              | Westville.....  | 385  | 206   | 326,947 | 1,587                       |
| 42  | Prairie Coal Co.....                     | Belleville..... | 271  | 232   | 325,680 | 1,404                       |
| 43  | Spring Valley Coal Co., No. 5.....       | Dalzell.....    | 685  | 223   | 316,788 | 1,421                       |
| 44  | Big Muddy Coal & Iron Co., No. 7.....    | Herrin.....     | 398  | 161   | 313,509 | 1,947                       |
| 45  | Mt. Olive & Staunton, No. 1.....         | Staunton.....   | 343  | 181   | 311,682 | 1,722                       |
| 46  | Black Diamond Coal Co.....               | Auburn.....     | 282  | 194   | 311,600 | 1,607                       |
| 47  | Maplewood Col. Co., No. 2.....           | Farmington....  | 370  | 217   | 303,500 | 1,399                       |
| 48  | B. F. Berry Coal Co., No. 1.....         | Taft.....       | 580  | 445   | 302,906 | 682                         |
| 49  | Bunson Coal Co., No. 2.....              | Westville.....  | 375  | 259   | 302,724 | 1,169                       |
| 50  | Christian Co. Coal Co.....               | Taylorville.... | 393  | 153   | 302,278 | 1,976                       |
| 51  | Dering Coal Co., No. 3.....              | Steelton.....   | 385  | 201   | 301,103 | 1,547                       |
| 52  | Bunson Coal Co., No. 3.....              | Westville.....  | 296  | 265   | 297,587 | 1,123                       |
| 53  | Hillsboro Coal Co.....                   | Hillsboro.....  | 218  | 228   | 293,619 | 1,288                       |
| 54  | W. P. Rend Coal & Coke Co., No. 2.....   | Herrin.....     | 315  | 200   | 290,938 | 1,455                       |
| 55  | Madison Coal Corp., No. 8.....           | Dewmaine.....   | 350  | 194   | 288,968 | 1,490                       |
| 56  | O'Gara Coal Co., No. 1.....              | Harrisburg....  | 268  | 243   | 286,318 | 1,178                       |
| 57  | Burnwell Coal Co., No. 1.....            | Witt.....       | 333  | 145   | 277,015 | 1,910                       |
| 58  | Big Creek Coal Co., No. 2.....           | St. David.....  | 361  | 230   | 271,729 | 1,181                       |
| 59  | Woodside Coal Co.....                    | Springfield.... | 347  | 200   | 269,354 | 1,347                       |
| 60  | W. P. Rend Col. Co., No. 1.....          | Rend.....       | 295  | 221   | 267,441 | 1,210                       |
| 61  | O'Gara Coal Co., No. 10.....             | Harrisburg....  | 300  | 207   | 265,945 | 1,285                       |
| 62  | Illinois Midland Coal Co., No. 6.....    | Sherman.....    | 414  | 139   | 265,683 | 1,911                       |
| 63  | Harrisburg-Southern Coal Co., No. 1..... | Eldorado.....   | 178  | 254   | 265,136 | 1,044                       |
| 64  | Girard Col. Co., No. 5.....              | Girard.....     | 320  | 166   | 263,512 | 1,587                       |
| 65  | Wasson Coal Co., No. 1.....              | Harrisburg....  | 258  | 249   | 259,421 | 1,042                       |
| 66  | Spring Valley Coal Co., No. 3.....       | Spring Valley.. | 654  | 196   | 259,021 | 1,324                       |
| 67  | Tuluca Coal Co., Nos. 1 and 2.....       | Tuluca.....     | 653  | 266   | 257,473 | 968                         |
| 68  | Clark Coal & Coke Co., Emp. 2.....       | Peoria.....     | 280  | 228   | 253,414 | 1,112                       |

Table 13—Concluded.

| No. | Companies.                             | Location.         | Men.   | Days. | Tons.      | Average tons per day. |
|-----|--|-------------------|--------|-------|------------|-----------------------|
| 69  | Madison Coal Corp., No. 5.....         | Mt. Olive.....    | 299    | 189   | 252,885    | 1,338                 |
| 70  | Spring Valley Coal Co., No. 1.....     | Spring Valley..   | 706    | 206   | 252,853    | 1,227                 |
| 71  | Centralia Coal Co., No. 2.....         | Centralia.....    | 300    | 194   | 245,901    | 1,268                 |
| 72  | O'Gara Coal Co., No. 4.....            | Harrisburg.....   | 292    | 190   | 244,900    | 1,289                 |
| 73  | Illinois 3d Vein Coal Co., No. 1.....  | Ladd.....         | 570    | 235   | 238,549    | 1,015                 |
| 74  | Lumaghi Coal Co., No. 2.....           | Collinsville..... | 430    | 107   | 238,140    | 2,226                 |
| 75  | O'Gara Coal Co., No. 14.....           | Harrisburg.....   | 319    | 189   | 238,076    | 1,260                 |
| 76  | Saline Co. Coal Co., No. 3.....        | do.....           | 286    | 260   | 235,326    | 950                   |
| 77  | Springfield Coal Co., No. 6.....       | Taylorville.....  | 307    | 183   | 235,220    | 1,285                 |
| 78  | Southern Coal & Mining Co., No. 7..... | Belleville.....   | 202    | 233   | 233,921    | 1,004                 |
| 79  | Eldorado Coal Mining Co., No. 1.....   | Eldorado.....     | 234    | 235   | 231,966    | 987                   |
| 80  | Breese Trenton Mining Co.....          | Breese.....       | 243    | 212   | 230,060    | 1,085                 |
| 81  | St. Paul Coal Co., No. 2.....          | Cherry.....       | 402    | 277   | 228,369    | 824                   |
| 82  | Peabody Coal Co., No. 2.....           | Marion.....       | 222    | 204   | 228,365    | 1,119                 |
| 83  | Taylor Coal Co., No. 2.....            | Herrin.....       | 237    | 215   | 227,819    | 1,060                 |
| 84  | Latham Coal Co., North.....            | Lincoln.....      | 353    | 203   | 227,586    | 1,121                 |
| 85  | Vivian Col. Co.....                    | Greenridge.....   | 274    | 228   | 226,500    | 993                   |
| 86  | Donk Bros. Coal & Coke Co., No. 1..... | Collinsville..... | 300    | 139   | 225,857    | 1,625                 |
| 87  | Capitol Coal Co., No. 2.....           | Springfield.....  | 305    | 212   | 222,792    | 1,051                 |
| 88  | Peabody Coal Co., No. 3.....           | Marion.....       | 390    | 116   | 222,701    | 1,919                 |
| 89  | Willis Coal & Mining Co., No. 1.....   | Willisville.....  | 236    | 218   | 222,541    | 1,021                 |
| 90  | Kortkamp Coal Co., K.....              | Hillstoro.....    | 280    | 167   | 222,256    | 1,339                 |
| 91  | Dering Coal Co., No. 11.....           | W. Frankfort..    | 331    | 169   | 221,906    | 1,313                 |
| 92  | Spring Valley Coal Co., No. 4.....     | Seatonville.....  | 524    | 232   | 220,037    | 949                   |
| 93  | Carterville Coal Co.....               | Carterville.....  | 264    | 138   | 218,418    | 1,582                 |
| 94  | Big Muddy Coal & Iron Co., No. 9.....  | Murphysboro..     | 245    | 167   | 216,445    | 1,296                 |
| 95  | Franklin Co. Coal & Coke Co.....       | Royalton.....     | 308    | 214   | 212,112    | 991                   |
| 96  | Greenridge Coal Co., No. 1.....        | Virden.....       | 287    | 161   | 212,096    | 1,317                 |
| 97  | Donk Bros. Coal & Coke Co., No. 3..... | Troy.....         | 347    | 187   | 209,076    | 1,118                 |
| 98  | Southern Illinois Coal & Coke Co.....  | Herrin.....       | 214    | 223   | 206,918    | 928                   |
| 99  | Monmouth Coal Mining Co., No. 1.....   | Brereton.....     | 292    | 171   | 206,430    | 1,207                 |
| 100 | Oglesby Coal Co., Oglesby.....         | Oglesby.....      | 443    | 233   | 205,737    | 882                   |
| 101 | LaSalle Co. C. C. Co., No. 5.....      | LaSalle.....      | 440    | 220   | 205,374    | 934                   |
| 102 | Chicago & Big Muddy Coal Co.....       | Marion.....       | 263    | 142   | 204,392    | 1,439                 |
| 103 | Dering Coal Co., No. 4.....            | Steelton.....     | 242    | 201   | 202,655    | 1,008                 |
| 104 | Electric Coal Co.....                  | Danville.....     | 199    | 273   | 201,857    | 739                   |
| 105 | Hafer Washed Coal Co., No. 3.....      | Carterville.....  | 205    | 152   | 200,138    | 1,317                 |
|     | Total.....                             | .....             | 40,963 | 208   | 35,124,860 | 1,608                 |

Table 14 is a continuation of Table 13 and shows the same items.

TABLE 14—*Mines from which more than 100,000 tons of coal and less than 200,000 have been delivered during the year 1912.*

| No. | Companies.                                 | Location.        | Men. | Days. | Tons.   | Average tons per day. |
|-----|--|------------------|------|-------|---------|-----------------------|
| 1   | Chicago & Springfield Coal Co.....         | Springfield..... | 264  | 151   | 199,478 | 1,321                 |
| 2   | Madison Coal Corp., No. 2.....             | Glen Carbon...   | 273  | 157   | 199,204 | 1,269                 |
| 3   | Ohio Valley Mining Co., No. 8.....         | W. Frankfort..   | 203  | 167   | 197,773 | 1,184                 |
| 4   | Chicago and Carterville Coal Co., B.....   | Herrin.....      | 301  | 178   | 197,534 | 1,110                 |
| 5   | Sangamon Coal Co.....                      | Springfield..... | 249  | 203   | 197,301 | 972                   |
| 6   | Chicago & Sandoval Coal Co., No. 2.....    | Sandoval.....    | 238  | 229   | 193,688 | 846                   |
| 7   | O'Gara Coal Co., No. 15.....               | Harrisburg.....  | 215  | 206   | 193,151 | 938                   |
| 8   | West Virginia Coal Co., No. 1.....         | Marion.....      | 170  | 186   | 192,357 | 1,034                 |
| 9   | Springfield Coal Mining Co., No. 5.....    | Springfield..... | 298  | 154   | 191,634 | 1,244                 |
| 10  | Big Creek Coal Co., No. 4.....             | Dunfermline...   | 258  | 195   | 190,460 | 977                   |
| 11  | Penwell Coal Mining Co.....                | Pana.....        | 260  | 149   | 190,104 | 1,75                  |
| 12  | Southern Illinois Coal & Coke Co.....      | Herrin.....      | 219  | 183   | 188,873 | 1,032                 |
| 13  | Willis Coal Mining Co., No. 6.....         | Percy.....       | 221  | 180   | 188,779 | 1,049                 |
| 14  | Centralia Coal Co., No. 4.....             | Centralia.....   | 216  | 201   | 188,365 | 937                   |
| 15  | Pana Coal Co., No. 1.....                  | Pana.....        | 257  | 167   | 185,588 | 1,111                 |
| 16  | Jos. Taylor Coal Co., St. Ellen.....       | O'Fallon.....    | 238  | 136   | 180,593 | 1,328                 |
| 17  | Crescent Coal Co., No. 1.....              | Peoria.....      | 248  | 215   | 180,325 | 838                   |
| 18  | Cora Coal Co.....                          | Springfield..... | 217  | 163   | 179,609 | 1,102                 |
| 19  | Big Muddy Fuel Co.....                     | Johnston City..  | 232  | 206   | 179,381 | 871                   |
| 20  | Madison Coal Corp., No. 4.....             | Glen Carbon...   | 265  | 154   | 178,713 | 1,160                 |
| 21  | Chi., Wilm. & Vermilion Coal Co., No. 1... | S. Wilmington..  | 387  | 194   | 177,995 | 818                   |
| 22  | Majestic Coal & Coke Co.....               | DuQuoin.....     | 390  | 92    | 176,038 | 1,913                 |
| 23  | Stonington Coal Co.....                    | Stonington.....  | 226  | 128   | 175,516 | 1,371                 |
| 24  | Carterville Dist. Coal Co., No. 1.....     | Marion.....      | 238  | 141   | 174,390 | 1,237                 |
| 25  | Paradise Coal Co.....                      | DuQuoin.....     | 210  | 114   | 173,789 | 1,524                 |
| 26  | Muddy Valley Mining Co.....                | Hallidayboro...  | 246  | 139   | 173,242 | 1,246                 |
| 27  | Breese Trenton Mining Co.....              | Beckemeyer...    | 266  | 152   | 171,752 | 1,130                 |
| 28  | DuQuoin Operating Co.....                  | DuQuoin.....     | 235  | 132   | 169,416 | 1,283                 |
| 29  | LaSalle Co. C. C. Co., No. 1.....          | LaSalle.....     | 384  | 206   | 168,396 | 817                   |
| 30  | Big Four Wilm. C. Co., No. 6.....          | Coal City.....   | 405  | 223   | 168,337 | 800                   |
| 31  | Odin Coal Co.....                          | Odin.....        | 215  | 213   | 167,138 | 789                   |
| 32  | Consolidated Coal Co., No. 8.....          | Mt. Olive.....   | 209  | 182   | 166,893 | 917                   |
| 33  | Alden Coal Co., No. 6.....                 | Norris.....      | 235  | 184   | 166,179 | 903                   |
| 34  | North Breese Coal & Mining Co.....         | Breese.....      | 229  | 150   | 163,726 | 1,092                 |
| 35  | Chi., Wilm. & Vermilion Coal Co., No. 3... | S. Wilmington..  | 307  | 194   | 159,805 | 824                   |

Table 14—Continued.

| No. | Companies.                                    | Location.          | Men. | Days. | Tons.   | Average tons per day. |
|-----|---|--------------------|------|-------|---------|-----------------------|
| 36  | Canton Coal Co. ....                          | Canton. ....       | 193  | 226   | 158,817 | 703                   |
| 37  | Superior Coal Mining Co. ....                 | Belleville. ....   | 131  | 206   | 158,622 | 770                   |
| 38  | Pond Creek Coal Co. ....                      | Herrin. ....       | 229  | 220   | 158,089 | 719                   |
| 39  | Norris Coal Mining Co. ....                   | Norris. ....       | 258  | 186   | 156,331 | 840                   |
| 40  | Centralia Coal Co., No. 5. ....               | Centralia. ....    | 289  | 83    | 152,961 | 1,831                 |
| 41  | Suburban Coal & Mining Co. ....               | Belleville. ....   | 118  | 229   | 151,603 | 662                   |
| 42  | Standard Colliery Co. ....                    | Johnston City..    | 178  | 171   | 149,666 | 875                   |
| 43  | Marquette 3d Vein Coal Co., No. 1. ....       | Marquette. ....    | 360  | 210   | 148,475 | 707                   |
| 44  | LaSalle Co. C. C. Co., No. 1. ....            | LaSalle. ....      | 350  | 230   | 145,279 | 632                   |
| 45  | Matheissen & Hegeler & Co. ....               | do. ....           | 122  | 297   | 141,090 | 475                   |
| 46  | Chi., Wilm. & Vermilion Coal Co., No. 3. .... | Streator. ....     | 215  | 256   | 140,802 | 550                   |
| 47  | Smith Lohr Coal Mining Co. ....               | Pana. ....         | 240  | 416   | 134,885 | 1,163                 |
| 48  | O'Gara Coal Co., No. 11. ....                 | Harrisburg. ....   | 248  | 160   | 134,619 | 841                   |
| 49  | Clover Leaf Mining Co., No. 2. ....           | Coffeen. ....      | 215  | 171   | 134,247 | 785                   |
| 50  | Eagle Mining Co., Eagle. ....                 | Canton. ....       | 160  | 232   | 132,360 | 571                   |
| 51  | Royal Coal & Mining Co. ....                  | Belleville. ....   | 129  | 160   | 131,700 | 823                   |
| 52  | Pocahontas Mining Co., No. 1. ....            | Pocahontas. ....   | 186  | 153   | 131,527 | 860                   |
| 53  | Security Coal Mining Co., No. 1. ....         | DuQuoin. ....      | 233  | 154   | 130,575 | 848                   |
| 54  | Missouri & Illinois Coal Co., No. 4. ....     | Willisville. ....  | 136  | 179   | 128,712 | 719                   |
| 55  | St. Louis & O'Fallon Coal Co., No. 1. ....    | E. St. Louis. .... | 402  | 102   | 128,706 | 1,262                 |
| 56  | Auburn & Alton Coal Co. ....                  | Auburn. ....       | 187  | 185   | 127,924 | 691                   |
| 57  | Simmons Coal Co. ....                         | Canton. ....       | 162  | 205   | 126,463 | 617                   |
| 58  | Tazewell Coal Co. ....                        | Pekin. ....        | 155  | 250   | 126,206 | 506                   |
| 59  | Carterville and Herrin Coal Co., No. 1. ....  | Herrin. ....       | 148  | 180   | 125,531 | 697                   |
| 60  | Williamson Co. Coal Co. ....                  | Johnston City..    | 212  | 124   | 125,523 | 1,012                 |
| 61  | Chi., Wilm. & Vermilion Coal Co., No. 2. .... | Streator. ....     | 259  | 200   | 122,978 | 615                   |
| 62  | Kerns-Donnewald Coal Co. ....                 | Worden. ....       | 163  | 158   | 122,584 | 775                   |
| 63  | Roanoke Coal Co. ....                         | Roanoke. ....      | 266  | 253   | 122,552 | 484                   |
| 64  | T. J. O'Gara Coal Co. ....                    | Springfield. ....  | 175  | 202   | 121,344 | 601                   |
| 65  | Winona Coal Co., No. 1. ....                  | Winona. ....       | 250  | 232   | 121,106 | 522                   |
| 66  | West End Coal Co. ....                        | Springfield. ....  | 201  | 132   | 119,261 | 903                   |
| 67  | Williamsville Coal Co. ....                   | Selbytown. ....    | 142  | 169   | 118,941 | 704                   |
| 68  | Dering Coal Co., No. 18. ....                 | W. Frankfort..     | 204  | 164   | 118,637 | 723                   |
| 69  | Kolb Coal Co. ....                            | Mascoutah. ....    | 102  | 337   | 117,790 | 350                   |
| 70  | Manufacturers & Consumers Coal Co. ....       | Deeatur. ....      | 244  | 229   | 117,573 | 513                   |
| 71  | Cantrall Cooperative Coal Co. ....            | Cantrall. ....     | 159  | 209   | 117,291 | 561                   |
| 72  | Springfield Cooperative Coal Co. ....         | Springfield. ....  | 138  | 206   | 115,300 | 560                   |
| 73  | Danville Col. Co. ....                        | Catlin. ....       | 148  | 227   | 115,176 | 507                   |

Table 14—Concluded.

| No. | Companies.                                  | Location.       | Men.   | Days. | Tons.      | Average<br>tons<br>per day. |
|-----|---|-----------------|--------|-------|------------|-----------------------------|
| 74  | St. Louis & Carterville Coal Co., Dale..... | Herrin.....     | 172    | 147   | 114,866    | 781                         |
| 75  | Big Muddy Coal & Iron Co., Harrison.....    | Murphysboro...  | 211    | 125   | 114,271    | 914                         |
| 76  | Lefton Coal Co.....                         | Auburn.....     | 196    | 173   | 112,648    | 651                         |
| 77  | Wilson Bros. Coal Co., No. 7.....           | Sparta.....     | 105    | 232   | 112,312    | 484                         |
| 78  | Coal Valley Mining Co., No. 2.....          | Sherrard.....   | 175    | 189   | 111,800    | 613                         |
| 79  | Peabody Coal Co., No. 10.....               | Nokomis.....    | 137    | 179   | 111,480    | 623                         |
| 80  | Carterville & Big Muddy Coal Co.....        | Cambria.....    | 177    | 153   | 110,015    | 719                         |
| 81  | Deming & Cruickshank, No. 3.....            | Peoria.....     | 135    | 230   | 109,648    | 477                         |
| 82  | Taylor Coal Co., No. 1.....                 | Herrin.....     | 167    | 142   | 108,594    | 765                         |
| 83  | Newsam Bros., No. 3.....                    | Peoria.....     | 128    | 246   | 108,233    | 445                         |
| 84  | Watson Coal Co., No. 1.....                 | Herrin.....     | 103    | 158   | 106,605    | 675                         |
| 85  | Saline Co. Coal Co., No. 1.....             | Ledford.....    | 174    | 215   | 105,667    | 491                         |
| 86  | Coal Valley Mining Co., No. 3.....          | Mathersville... | 142    | 157   | 105,617    | 673                         |
| 87  | Breese Trenton Mining Co.....               | Trenton.....    | 180    | 136   | 105,465    | 775                         |
| 88  | Wabash Coal Co., No. 1.....                 | Dawson.....     | 140    | 200   | 105,191    | 526                         |
| 89  | Wilm. Coal., Mining & Mfg. Co., No. 6.....  | Torino.....     | 250    | 219   | 102,662    | 469                         |
| 90  | Star Coal Co., No. 1.....                   | Cuba.....       | 192    | 194   | 101,595    | 524                         |
| 91  | Alden Coal Co., No. 7.....                  | Mathersville... | 154    | 163   | 100,653    | 618                         |
|     | Total.....                                  |                 | 19,669 | 188   | 13,324,090 | 792                         |



Table 15 shows the total of the number of mines and tons produced for seventeen years of the mines producing 50,000 tons or more. The number of tons is larger this year than for any years of the series.

TABLE 15—*Mines producing 50,000 tons and less than 100,000; 100,000 tons and less than 200,000, and 200,000 tons and more, with total mines and tons, for seventeen years.*

| Year.     | Mines producing—                  |           |                                    |            |                    |            | Total.        |             |
|-----------|-----------------------------------|-----------|------------------------------------|------------|--------------------|------------|---------------|-------------|
|           | 50,000 tons and less than 100,000 |           | 100,000 tons and less than 200,000 |            | More than 200,000. |            |               |             |
|           | No. of mines.                     | Tons.     | No. of mines.                      | Tons.      | No. of mines.      | Tons.      | No. of mines. | Total tons. |
| 1896..... | 63                                | 5,049,694 | 45                                 | 6,557,545  | 16                 | 3,962,435  | 124           | 15,569,674  |
| 1897..... | 79                                | 5,693,193 | 41                                 | 5,778,374  | 17                 | 4,514,507  | 137           | 15,986,074  |
| 1898..... | 86                                | 6,351,513 | 42                                 | 5,898,596  | 7                  | 1,709,457  | 135           | 13,959,566  |
| 1899..... | 77                                | 5,618,924 | 57                                 | 7,443,023  | 25                 | 6,566,851  | 159           | 19,628,798  |
| 1900..... | 70                                | 5,009,326 | 65                                 | 8,995,963  | 27                 | 6,769,328  | 162           | 20,774,617  |
| 1901..... | 79                                | 5,795,952 | 58                                 | 8,008,897  | 33                 | 8,370,234  | 170           | 22,175,084  |
| 1902..... | 76                                | 5,376,350 | 72                                 | 9,923,538  | 38                 | 10,101,867 | 186           | 25,401,755  |
| 1903..... | 75                                | 5,445,195 | 87                                 | 12,387,437 | 45                 | 12,728,405 | 207           | 30,561,037  |
| 1904..... | 72                                | 5,200,551 | 98                                 | 13,763,975 | 46                 | 13,460,272 | 216           | 32,424,798  |
| 1905..... | 83                                | 5,868,103 | 88                                 | 12,158,090 | 52                 | 14,181,792 | 223           | 32,207,985  |
| 1906..... | 89                                | 6,116,018 | 97                                 | 13,462,256 | 47                 | 12,565,030 | 233           | 32,143,304  |
| 1907..... | 91                                | 6,600,264 | 95                                 | 13,376,164 | 80                 | 22,978,809 | 266           | 42,955,237  |
| 1908..... | 98                                | 7,130,739 | 92                                 | 13,181,385 | 82                 | 24,192,665 | 272           | 44,504,789  |
| 1909..... | 66                                | 4,939,139 | 90                                 | 12,609,581 | 87                 | 27,113,625 | 243           | 44,662,345  |
| 1910..... | 87                                | 6,353,951 | 94                                 | 13,911,460 | 75                 | 24,117,699 | 256           | 44,383,110  |
| 1911..... | 82                                | 6,000,914 | 101                                | 14,455,906 | 76                 | 24,983,804 | 259           | 45,440,624  |
| 1912..... | 70                                | 5,134,560 | 91                                 | 13,324,090 | 105                | 35,124,860 | 266           | 53,583,510  |

## GAIN OF LOSS IN MINES.

Table 16 shows the number of mines that were in operation at the beginning of the year, the number opened and the number closed, and is for twenty-three years.

TABLE 16—*Total number of mines at the beginning of each year, number opened and closed each year, also the gain and loss for a series of twenty-three years.*

| Year.     | Number of mines.      |                    |        |                      |                   | Gain. | Loss. |
|-----------|-----------------------|--------------------|--------|----------------------|-------------------|-------|-------|
|           | At beginning of year. | Opened or renewed. | Total. | Closed or suspended. | At close of year. |       |       |
| 1890..... | 854                   | 176                | 1,030  | 94                   | 936               | 82    | ..... |
| 1891..... | 936                   | 92                 | 1,028  | 110                  | 918               | ..... | 18    |
| 1892..... | 918                   | 59                 | 977    | 138                  | 839               | ..... | 79    |
| 1893..... | 839                   | 69                 | 908    | 120                  | 788               | ..... | 51    |
| 1894..... | 788                   | 156                | 944    | 108                  | 836               | 48    | ..... |
| 1895..... | 836                   | 116                | 952    | 78                   | 874               | 38    | ..... |
| 1896..... | 874                   | 142                | 1,016  | 115                  | 901               | 27    | ..... |
| 1897..... | 901                   | 70                 | 971    | 118                  | 853               | ..... | 48    |
| 1898..... | 853                   | 120                | 973    | 92                   | 881               | 28    | ..... |
| 1899..... | 881                   | 129                | 1,010  | 121                  | 889               | 8     | ..... |
| 1900..... | 889                   | 147                | 1,036  | 116                  | 920               | 31    | ..... |
| 1901..... | 920                   | 138                | 1,058  | 143                  | 915               | ..... | 5     |
| 1902..... | 915                   | 111                | 1,026  | 111                  | 915               | ..... | ..... |
| 1903..... | 915                   | 109                | 1,024  | 91                   | 933               | 18    | ..... |
| 1904..... | 933                   | 109                | 1,042  | 110                  | 932               | ..... | 1     |
| 1905..... | 932                   | 168                | 1,100  | 110                  | 990               | 58    | ..... |
| 1906..... | 990                   | 151                | 1,141  | 123                  | 1,018             | 28    | ..... |
| 1907..... | 1,018                 | 88                 | 1,106  | 173                  | 933               | ..... | 85    |
| 1908..... | 933                   | 97                 | 1,030  | 108                  | 922               | ..... | 11    |
| 1909..... | 922                   | 81                 | 1,003  | 117                  | 886               | ..... | 36    |
| 1910..... | 886                   | 86                 | 972    | 91                   | 881               | ..... | 5     |
| 1911..... | 881                   | 184                | 1,065  | 220                  | 845               | ..... | 36    |
| 1912..... | 845                   | 176                | 1,021  | 142                  | 879               | 34    | ..... |

Table 17 is the same showing as Table 16, but is for shipping mines only. There is a loss of seven in this class of mines this year.

TABLE 17—*Shipping mines, number opened and closed, also gain and loss for a series of twenty-two years.*

| Year.     | Number of mines.      |                    |        |                      |                   | Gain. | Loss. |
|-----------|-----------------------|--------------------|--------|----------------------|-------------------|-------|-------|
|           | At beginning of year. | Opened or renewed. | Total. | Closed or suspended. | At close of year. |       |       |
| 1891..... | 308                   | .....              | 308    | .....                | 308               | ..... | ..... |
| 1892..... | 308                   | .....              | 308    | 9                    | 299               | ..... | 9     |
| 1893..... | 299                   | 2                  | 301    | .....                | 301               | 2     | ..... |
| 1894..... | 301                   | 18                 | 319    | .....                | 319               | 18    | ..... |
| 1895..... | 319                   | .....              | 319    | .....                | 319               | ..... | ..... |
| 1896..... | 319                   | 3                  | 322    | .....                | 322               | 3     | ..... |
| 1897..... | 322                   | .....              | 322    | 12                   | 310               | ..... | 12    |
| 1898..... | 310                   | 19                 | 329    | .....                | 329               | 19    | ..... |
| 1899..... | 329                   | .....              | 329    | 8                    | 321               | ..... | 8     |
| 1900..... | 321                   | 2                  | 323    | .....                | 323               | 2     | ..... |
| 1901..... | 323                   | 8                  | 331    | .....                | 331               | 8     | ..... |
| 1902..... | 331                   | 1                  | 332    | .....                | 332               | 1     | ..... |
| 1903..... | 332                   | 21                 | 353    | .....                | 353               | 21    | ..... |
| 1904..... | 352                   | 27                 | 380    | .....                | 380               | 27    | ..... |
| 1905..... | 380                   | 17                 | 397    | .....                | 397               | 17    | ..... |
| 1906..... | 397                   | 22                 | 419    | .....                | 419               | 22    | ..... |
| 1907..... | 419                   | .....              | 419    | 8                    | 411               | ..... | 8     |
| 1908..... | 411                   | 16                 | 427    | 20                   | 407               | ..... | 4     |
| 1909..... | 407                   | 18                 | 425    | 41                   | 384               | ..... | 23    |
| 1910..... | 384                   | 27                 | 411    | 21                   | 390               | 6     | ..... |
| 1911..... | 390                   | 29                 | 419    | 32                   | 387               | ..... | 3     |
| 1912..... | 387                   | 15                 | 402    | 22                   | 380               | ..... | 7     |

Table 18 presents a list of the counties in which shipping mines are operated and gives the number of mines, the number of men employed and number of tons produced in each for the years 1911 and 1912.

The gain or loss in mines, men and tons is also shown. The number of mines decreased this year is seven, but the increase in the number of men employed is 1,897, and in tonnage 7,338,038.

TABLE 18—*Shipping mines, number of mines, men, tons, by counties, with the gain or loss for the years 1911-1912.*

| Counties.        | 1911.  |        |            | 1912.  |        |            | Gain (+) or loss (—) 1912. |        |            |
|------------------|--------|--------|------------|--------|--------|------------|----------------------------|--------|------------|
|                  | Mines. | Men.   | Tons.      | Mines. | Men.   | Tons.      | Mines.                     | Men.   | Tons.      |
| The State.....   | 387    | 74,508 | 48,758,657 | 380    | 76,407 | 56,096,695 | —7                         | +1,899 | +7,338,038 |
| Bond.....        | 2      | 269    | 144,824    | 2      | 316    | 183,180    | .....                      | +47    | +38,356    |
| Bureau.....      | 7      | 3,637  | 1,217,566  | 7      | 3,901  | 1,664,092  | .....                      | +264   | +446,526   |
| Christian.....   | 8      | 2,068  | 1,195,767  | 8      | 2,058  | 1,340,503  | .....                      | —10    | +144,736   |
| Clinton.....     | 5      | 1,313  | 1,000,536  | 5      | 1,315  | 1,012,982  | .....                      | +2     | +12,446    |
| Franklin.....    | 14     | 3,732  | 2,354,839  | 16     | 4,472  | 4,026,815  | +2                         | +740   | +1,671,976 |
| Fulton.....      | 22     | 3,637  | 1,788,137  | 20     | 3,540  | 2,333,758  | —2                         | —97    | +515,621   |
| Gallatin.....    | 3      | 128    | 56,656     | 3      | 135    | 63,127     | .....                      | +7     | +6,471     |
| Grundy.....      | 7      | 1,692  | 583,961    | 6      | 1,661  | 742,606    | —1                         | —31    | +158,645   |
| Henry.....       | 2      | 135    | 84,350     | 1      | 95     | 42,995     | —1                         | —40    | —41,355    |
| Jackson.....     | 9      | 1,124  | 621,853    | 7      | 1,071  | 687,857    | —2                         | —53    | +66,004    |
| Jefferson.....   | 1      | 36     | 10,708     | 1      | 45     | 7,958      | .....                      | +9     | —2,750     |
| LaSalle.....     | 14     | 3,299  | 1,163,201  | 15     | 3,319  | 1,404,599  | +1                         | +20    | +241,398   |
| Livingston.....  | 2      | 322    | 73,212     | 1      | 45     | 29,682     | —1                         | —277   | —43,530    |
| Logan.....       | 4      | 600    | 304,069    | 4      | 677    | 429,555    | .....                      | +17    | +125,456   |
| Macon.....       | 5      | 643    | 255,764    | 5      | 597    | 271,626    | .....                      | —46    | +15,862    |
| Macoupin.....    | 13     | 4,469  | 4,269,238  | 13     | 4,650  | 4,890,622  | .....                      | +181   | +621,384   |
| Madison.....     | 16     | 4,160  | 3,715,882  | 16     | 4,301  | 3,400,930  | .....                      | +141   | —314,952   |
| Marion.....      | 7      | 1,687  | 1,134,377  | 6      | 1,399  | 1,203,947  | —1                         | —288   | +69,570    |
| Marshall.....    | 4      | 1,013  | 307,452    | 5      | 1,038  | 441,731    | +1                         | +25    | +134,279   |
| McLean.....      | 2      | 272    | 89,925     | 2      | 200    | 96,808     | .....                      | —72    | +6,973     |
| Menard.....      | 5      | 440    | 236,314    | 4      | 329    | 189,235    | —1                         | —111   | —47,079    |
| Mercer.....      | 3      | 436    | 239,740    | 3      | 471    | 318,070    | .....                      | +35    | +78,330    |
| Montgomery.....  | 10     | 2,580  | 2,189,078  | 10     | 2,672  | 2,280,341  | .....                      | +92    | +91,263    |
| Moultrie.....    | 1      | 30     | 11,573     | 1      | 68     | 54,162     | .....                      | +38    | +42,589    |
| Peoria.....      | 13     | 1,138  | 809,013    | 14     | 1,386  | 1,026,151  | +1                         | +248   | +217,138   |
| Perry.....       | 21     | 2,356  | 1,446,077  | 19     | 2,402  | 1,394,940  | —2                         | +46    | —51,137    |
| Putnam.....      | 2      | 1,309  | 585,135    | 2      | 1,354  | 716,531    | .....                      | +45    | +131,396   |
| Randolph.....    | 10     | 1,174  | 991,932    | 10     | 1,127  | 744,506    | .....                      | —47    | —247,426   |
| Rock Island..... | 1      | 16     | 9,717      | 1      | 29     | 13,040     | .....                      | +13    | +3,323     |

Table 18—Concluded.

| Counties.       | 1911.  |       |           | 1912.  |       |           | Gain (+) or loss (—) 1912. |       |            |
|-----------------|--------|-------|-----------|--------|-------|-----------|----------------------------|-------|------------|
|                 | Mines. | Men.  | Tons.     | Mines. | Men.  | Tons.     | Mines.                     | Men.  | Tons.      |
| Saline.....     | 18     | 3,868 | 3,221,100 | 18     | 4,659 | 4,076,756 | .....                      | +791  | +855,656   |
| Sangamon.....   | 31     | 7,220 | 4,640,026 | 29     | 7,249 | 5,402,065 | —2                         | +29   | +762,039   |
| Shelby.....     | 2      | 280   | 80,767    | 2      | 211   | 114,835   | .....                      | —69   | +34,068    |
| Stark.....      | 1      | 33    | 13,949    | 1      | 33    | 13,326    | .....                      | ..... | —623       |
| St. Clair.....  | 55     | 5,759 | 5,173,979 | 58     | 5,701 | 4,409,341 | +3                         | —58   | —764,638   |
| Tazewell.....   | 5      | 344   | 164,373   | 5      | 341   | 209,802   | .....                      | —3    | +45,429    |
| Vermilion.....  | 19     | 3,750 | 3,067,880 | 18     | 3,773 | 3,221,314 | —1                         | +23   | +153,434   |
| Washington..... | .....  | ..... | .....     | 3      | 416   | 188,083   | +3                         | +416  | +188,083   |
| White.....      | 1      | 56    | 29,271    | 1      | 55    | 31,774    | .....                      | —1    | +2,503     |
| Will.....       | 2      | 483   | 160,025   | 2      | 412   | 174,443   | .....                      | —71   | +14,418    |
| Williamson..... | 38     | 8,532 | 5,180,971 | 34     | 8,461 | 7,058,621 | —4                         | —71   | +1,877,650 |
| Woodford.....   | 2      | 408   | 135,390   | 2      | 423   | 183,896   | .....                      | +15   | +48,506    |

## DISTRIBUTION OF OUTPUT.

Table 19 shows a list of the shipping mines of the State, giving the names of the operators, the number and location of the mines controlled by each, the total output and the disposition of the product.

TABLE 19—*Shipping or commercial collieries—distribution of output, 1912.*

| Number.   | Name of operator.        | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|-----------|--------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|           |                          |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplied to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
|           | All shipping mines..     | 380              | .....                                 | 56,096,695               | 51,502,382                                    | 924,854                                 | 1,549,437            | 2,120,022                    |
| 1         | O'Gara Coal Co.....      | 11               | Harrisburg.....                       | 2,461,017                | 2,349,223                                     | 38,870                                  | 23,826               | 49,098                       |
| 2         | Superior Coal Co.....    | 3                | Gillespie.....                        | 2,303,531                | 2,253,209                                     | .....                                   | 2,125                | 48,197                       |
| 3         | Bunsen Coal Co.....      | 4                | Westville.....                        | 1,802,144                | 1,757,178                                     | .....                                   | 13,079               | 31,887                       |
| 4         | Consolidated Coal Co.... | 5                | .....                                 | 1,773,550                | 1,562,186                                     | 39,099                                  | 2,056                | 170,209                      |
| ..do..... | .....                    | 2                | Mt. Olive.....                        | 627,009                  | 531,358                                       | 39,099                                  | 639                  | 55,913                       |
| ..do..... | .....                    | 1                | Staunton.....                         | 534,485                  | 494,314                                       | .....                                   | .....                | 40,171                       |
| ..do..... | .....                    | 1                | Collinsville.....                     | 516,913                  | 449,805                                       | .....                                   | .....                | 67,108                       |
| ..do..... | .....                    | 1                | Breese.....                           | 95,143                   | 86,709  | .....                                   | 1,417                | 7,017                        |

Table 19—Continued.

| Number. | Name of operator.         | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|---------|---------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|         |                           |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplied to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
| 5       | Madison Coal Corp.....    | 6                | .....                                 | 1,697,976                | 1,612,372                                     | 18,181                                  | 9,889                | 57,534                       |
|         | ..do.....                 | 2                | Dewmaine.....                         | 712,524                  | 689,764                                       | .....                                   | 3,383                | 19,377                       |
|         | ..do.....                 | 2                | Glen Carbon.....                      | 377,917                  | 355,318                                       | 596                                     | 2,921                | 19,082                       |
|         | ..do.....                 | 1                | Divernon.....                         | 354,650                  | 342,500                                       | .....                                   | 3,378                | 8,772                        |
|         | ..do.....                 | 1                | Mt. Olive.....                        | 252,885                  | 224,790                                       | 17,585                                  | 207                  | 10,303                       |
| 6       | Big Muddy C. & I. Co....  | 4                | .....                                 | 1,214,920                | 1,116,475                                     | .....                                   | 4,961                | 93,484                       |
|         | ..do.....                 | 1                | Clifford.....                         | 570,695                  | 523,183                                       | .....                                   | 2,063                | 45,419                       |
|         | ..do.....                 | 2                | Murphysboro.....                      | 330,716                  | 306,425                                       | .....                                   | .....                | 24,291                       |
|         | ..do.....                 | 1                | Herrin.....                           | 313,509                  | 286,867                                       | .....                                   | 2,898                | 23,744                       |
| 7       | Dering Coal Co.....       | 5                | .....                                 | 1,171,248                | 1,142,779                                     | .....                                   | .....                | 28,469                       |
|         | ..do.....                 | 2                | Steelton.....                         | 503,758                  | 495,980                                       | .....                                   | .....                | 7,778                        |
|         | ..do.....                 | 2                | West Frankfort.....                   | 340,543                  | 324,382                                       | .....                                   | .....                | 16,161                       |
|         | ..do.....                 | 1                | Westville.....                        | 326,947                  | 322,417                                       | .....                                   | .....                | 4,530                        |
| 8       | Chi., Wil. & V. C. Co.... | 5                | .....                                 | 1,087,720                | 923,501                                       | 319                                     | 22,839               | 141,061                      |
|         | ..do.....                 | 1                | Thayer.....                           | 486,140                  | 468,770                                       | .....                                   | 2,591                | 11,779                       |
|         | ..do.....                 | 2                | S. Wilmington.....                    | 337,800                  | 222,492                                       | 319                                     | 10,168               | 104,821                      |
|         | ..do.....                 | 2                | Streator.....                         | 263,780                  | 232,239                                       | .....                                   | 10,080               | 21,461                       |
| 9       | Spring Valley Coal Co.... | 4                | .....                                 | 1,048,699                | 970,699                                       | 12,142                                  | 25,779               | 40,079                       |
|         | ..do.....                 | 2                | Spring Valley.....                    | 511,874                  | 461,745                                       | 12,142                                  | 18,182               | 19,805                       |
|         | ..do.....                 | 1                | Dalzell.....                          | 316,788                  | 303,571                                       | .....                                   | 2,535                | 10,682                       |
|         | ..do.....                 | 1                | Seatonville.....                      | 220,037                  | 205,383                                       | .....                                   | 5,062                | 9,592                        |
| 10      | Southern C. & M. Co....   | 8                | .....                                 | 1,018,206                | 961,266                                       | 1,167                                   | 6,966                | 48,807                       |
|         | ..do.....                 | 7                | Belleville.....                       | 665,905                  | 635,140                                       | 1,167                                   | 4,739                | 24,859                       |
|         | ..do.....                 | 1                | New Baden.....                        | 352,301                  | 326,126                                       | .....                                   | 2,227                | 23,948                       |
| 11      | Peabody Coal Co.....      | 4                | .....                                 | 929,483                  | 907,849                                       | .....                                   | 3,034                | 18,600                       |
|         | ..do.....                 | 2                | Marion.....                           | 451,066                  | 441,691                                       | .....                                   | .....                | 9,375                        |
|         | ..do.....                 | 1                | Witt.....                             | 366,937                  | 359,006                                       | .....                                   | 2,108                | 5,823                        |
|         | ..do.....                 | 1                | Nokomis.....                          | 111,480                  | 107,152                                       | .....                                   | 926                  | 3,402                        |
| 12      | Springfield C. M. Co....  | 4                | .....                                 | 853,279                  | 758,477                                       | 19,903                                  | 31,919               | 42,980                       |
|         | ..do.....                 | 1                | Riverton.....                         | 388,937                  | 362,262                                       | .....                                   | 3,518                | 23,157                       |
|         | ..do.....                 | 1                | Taylorville.....                      | 235,220                  | 175,803                                       | 19,903                                  | 26,201               | 13,313                       |
|         | ..do.....                 | 1                | Springfield.....                      | 191,634                  | 185,812                                       | .....                                   | .....                | 5,822                        |
|         | ..do.....                 | 1                | Spaulding.....                        | 37,488                   | 34,600  | .....                                   | 2,200                | 688                          |

Table 19—Continued.

| Number. | Name of operator.              | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|---------|--------------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|         |                                |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplied to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
| 13      | Saline Co. Coal Co .....       | 3                | .....                                 | 839,216                  | 821,390                                       | .....                                   | 3,249                | 14,577                       |
|         | ..do.....                      | 2                | Ledford.....                          | 603,890                  | 592,771                                       | .....                                   | 2,100                | 9,019                        |
|         | ..do.....                      | 1                | Harrisburg.....                       | 235,326                  | 228,619                                       | .....                                   | 1,149                | 5,558                        |
| 14      | Mt. Olive & Staun. C. Co. .... | 2                | Staunton.....                         | 817,726                  | 790,991                                       | 5,941                                   | 5,052                | 15,742                       |
| 15      | Donk Bros. C. & C. Co..        | 3                | .....                                 | 815,837                  | 781,835                                       | 1,057                                   | 6,516                | 26,429                       |
|         | ..do.....                      | 1                | Maryville.....                        | 380,904                  | 365,667                                       | 599                                     | 1,605                | 13,023                       |
|         | ..do.....                      | 1                | Collinsville.....                     | 225,857                  | 217,584                                       | 458                                     | 266                  | 7,549                        |
|         | ..do.....                      | 1                | Troy.....                             | 209,076                  | 198,574                                       | .....                                   | 4,645                | 5,857                        |
| 16      | New Staunton C. Co....         | 1                | Livingston.....                       | 737,632                  | 727,788                                       | .....                                   | 2,936                | 6,908                        |
| 17      | St. L. & O'Fallon C. Co. ....  | 2                | East St. Louis.                       | 693,414                  | 680,481                                       | 6,418                                   | .....                | 6,515                        |
| 18      | Ill. Midland Coal Co....       | 2                | .....                                 | 648,271                  | 625,089                                       | 3,722                                   | 7,757                | 11,703                       |
|         | ..do.....                      | 1                | Pawnee.....                           | 382,588                  | 364,392                                       | 3,722                                   | 7,650                | 6,824                        |
|         | ..do.....                      | 1                | Sherman.....                          | 265,683                  | 260,697                                       | .....                                   | 107                  | 4,879                        |
| 19      | St. Paul Coal Co.....          | 2                | .....                                 | 641,994                  | 610,709                                       | 3,873                                   | 7,151                | 20,261                       |
|         | ..do.....                      | 1                | Granville.....                        | 413,625                  | 393,208                                       | 3,873                                   | 3,626                | 12,918                       |
|         | ..do.....                      | 1                | Cherry.....                           | 228,369                  | 217,501                                       | .....                                   | 3,525                | 7,343                        |
| 20      | LaSalle Co. C. C. Co....       | 5                | LaSalle.....                          | 627,772                  | 501,273                                       | 36,582                                  | 57,034               | 32,883                       |
| 21      | Chi. & Carterville C. Co. .... | 2                | Herrin.....                           | 604,954                  | 559,810                                       | 8                                       | 5,879                | 39,257                       |
| 22      | United Coal M. Co.....         | 2                | Christopher....                       | 594,148                  | 577,823                                       | .....                                   | 12,294               | 4,031                        |
| 23      | Centralia Coal Co.....         | 3                | Centralia.....                        | 587,227                  | 383,465                                       | 144,691                                 | 36,659               | 22,412                       |
| 24      | W. P. Reid Coal Co....         | 2                | .....                                 | 558,379                  | 534,326                                       | .....                                   | 2,289                | 21,764                       |
|         | ..do.....                      | 1                | Herrin.....                           | 290,938                  | 278,907                                       | .....                                   | 965                  | 11,066                       |
|         | ..do.....                      | 1                | Rend.....                             | 267,441                  | 255,419                                       | .....                                   | 1,324                | 10,698                       |
| 25      | Johnston City C. Co....        | 1                | Johnston City..                       | 540,236                  | 534,236                                       | .....                                   | .....                | 6,000                        |
| 26      | Breese-Trenton M. Co..         | 3                | .....                                 | 507,277                  | 405,311                                       | 54,085                                  | 16,191               | 31,690                       |
|         | ..do.....                      | 1                | Breese.....                           | 230,060                  | 162,228                                       | 54,085                                  | 7,607                | 6,140                        |
|         | ..do.....                      | 1                | Beckemeyer....                        | 171,752                  | 157,658                                       | .....                                   | 3,305                | 10,789                       |
|         | ..do.....                      | 1                | Trenton.....                          | 105,465                  | 85,425  | .....                                   | 5,279                | 14,761                       |
| 27      | Zeigler Dist. Col. Co....      | 1                | Christopher....                       | 475,386                  | 461,963                                       | .....                                   | 3,494                | 9,929                        |
| 28      | Jones & Adams C. Co....        | 1                | Springfield....                       | 472,380                  | 462,448                                       | 1,672                                   | .....                | 8,260                        |
| 29      | Big Creek Coal Co.....         | 3                | .....                                 | 472,173                  | 452,754                                       | 328                                     | 1,112                | 17,979                       |
|         | ..do.....                      | 1                | St. David.....                        | 271,729                  | 261,218                                       | 192                                     | 4                    | 10,315                       |
|         | ..do.....                      | 1                | Dunfermline....                       | 190,460                  | 182,014                                       | .....                                   | 1,108                | 7,338                        |
|         | ..do.....                      | 1                | Cuba.....                             | 9,984                    | 9,522   | 136                                     | .....                | 326                          |

Table 19—Continued.

| Number. | Name of operator.          | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|---------|----------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|         |                            |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplied to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
| 30      | Southern Ill. C. Co .....  | 3                | Herrin .....                          | 468,073                  | 437,607                                       | .....                                   | 7,276                | 23,190                       |
| 31      | Sesser Coal Co. ....       | 1                | Sesser .....                          | 424,449                  | 421,449                                       | .....                                   | .....                | 3,000                        |
| 32      | Bell & Zollar M. Co. ....  | 1                | Zeigler .....                         | 423,687                  | 402,752                                       | 625                                     | 1,388                | 18,922                       |
| 33      | Willis C. & M. Co .....    | 2                | .....                                 | 411,320                  | 398,751                                       | .....                                   | 1,119                | 11,450                       |
|         | ..do.....                  | 1                | Willisville .....                     | 222,541                  | 213,836                                       | .....                                   | 465                  | 8,240                        |
|         | ..do.....                  | 1                | Percy .....                           | 188,779                  | 184,915                                       | .....                                   | 654                  | 3,210                        |
| 34      | Shoal Creek Coal Co. ....  | 1                | Panama .....                          | 407,025                  | 388,612                                       | .....                                   | 1,846                | 16,567                       |
| 35      | Maplewood Col. Co. ....    | 2                | Farmington .....                      | 389,480                  | 377,124                                       | .....                                   | 1,234                | 11,122                       |
| 36      | Benton Coal Co. ....       | 1                | Benton .....                          | 382,465                  | 360,503                                       | .....                                   | 9,117                | 12,845                       |
| 37      | Royal Col. Co. ....        | 1                | Virden .....                          | 362,815                  | 331,584                                       | .....                                   | 4,614                | 26,617                       |
| 38      | Joseph Taylor Coal Co. ..  | 3                | O'Fallon .....                        | 360,591                  | 317,291                                       | .....                                   | 1,800                | 41,500                       |
| 39      | Marion Co. Coal Co. ....   | 1                | Centralia .....                       | 357,648                  | 349,568                                       | .....                                   | 780                  | 7,300                        |
| 40      | Alden Coal Co. ....        | 3                | .....                                 | 351,661                  | 342,245                                       | .....                                   | 3,481                | 5,935                        |
|         | ..do.....                  | 1                | Norris .....                          | 166,179                  | 159,330                                       | .....                                   | 1,925                | 4,924                        |
|         | ..do.....                  | 1                | Matherville .....                     | 100,653                  | 100,153                                       | .....                                   | .....                | 500                          |
|         | ..do.....                  | 1                | Farmington .....                      | 84,829                   | 82,762  | .....                                   | 1,556                | 511                          |
| 41      | Sunnyside Coal Co .....    | 1                | Herrin .....                          | 342,383                  | 300,099                                       | .....                                   | 2,063                | 40,221                       |
| 42      | Taylor Coal Co. ....       | 2                | ..do .....                            | 336,413                  | 311,404                                       | 6,540                                   | 413                  | 18,056                       |
| 43      | Star Coal Co. ....         | 5                | .....                                 | 333,836                  | 318,550                                       | 1,805                                   | 4,001                | 9,480                        |
|         | ..do.....                  | 3                | Cuba .....                            | 239,262                  | 230,857                                       | 1,805                                   | .....                | 6,600                        |
|         | ..do.....                  | 1                | Freeburg .....                        | 55,461                   | 0,000   | .....                                   | 4,001                | 1,460                        |
|         | ..do.....                  | 1                | Fiatt .....                           | 39,113                   | 37,693  | .....                                   | .....                | 1,420                        |
| 44      | Western Coal & M. Co. ..   | 1                | Bush .....                            | 332,693                  | 314,933                                       | .....                                   | 1,172                | 16,588                       |
| 45      | Hart-Williams C. Co. ....  | 1                | Benton .....                          | 332,350                  | 322,209                                       | .....                                   | 5,933                | 4,208                        |
| 46      | Lumaghi Coal Co. ....      | 2                | Collinsville .....                    | 329,811                  | 322,285                                       | .....                                   | 780                  | 6,746                        |
| 47      | Montgomery Co. Coal Co. .. | 1                | Hillsboro .....                       | 329,222                  | 319,222                                       | .....                                   | 2,000                | 8,000                        |
| 48      | Prairie Coal Co. ....      | 1                | Belleville .....                      | 325,680                  | 323,054                                       | 614                                     | 212                  | 1,800                        |
| 49      | Black Diamond C. Co. ..    | 1                | Auburn .....                          | 311,600                  | 305,720                                       | .....                                   | 1,530                | 4,350                        |
| 50      | B. F. Berry Coal Co. ....  | 1                | Taft .....                            | 302,906                  | 288,515                                       | .....                                   | 5,335                | 9,056                        |
| 51      | Christian Co. C. Co. ....  | 1                | Taylorville .....                     | 302,278                  | 274,490                                       | .....                                   | 12,446               | 15,342                       |
| 52      | Hillsboro Coal Co. ....    | 1                | Hillsboro .....                       | 293,619                  | 274,129                                       | .....                                   | 12,927               | 6,563                        |
| 53      | Burnwell Coal Co. ....     | 1                | Witt .....                            | 277,015                  | 269,360                                       | .....                                   | 2,108                | 5,547                        |
| 54      | Woodslides Coal Co. ....   | 1                | Springfield .....                     | 269,354                  | 203,935                                       | 34,077                                  | 25,457               | 5,885                        |
| 55      | Harrisburg So. C. Co. ...  | 1                | Eldorado .....                        | 265,136                  | 265,136                                       | .....                                   | .....                | .....                        |



Table 19—Continued.

| Number. | Name of operator.            | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|---------|------------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|         |                              |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplied to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
| 56      | Girard Col. Co. ....         | 1                | Girard .....                          | 263,512                  | 251,599                                       | .....                                   | 8,624                | 3,289                        |
| 57      | Wasson Coal Co. ....         | 1                | Harrisburg .....                      | 259,421                  | 256,451                                       | .....                                   | 720                  | 2,250                        |
| 58      | Toluca Coal Co. ....         | 1                | Toluca .....                          | 257,473                  | 196,528                                       | 37,738                                  | 7,588                | 15,619                       |
| 59      | Clarke Coal & C. Co. ....    | 1                | Peoria .....                          | 253,414                  | 244,414                                       | .....                                   | .....                | 9,000                        |
| 60      | Big Four Wilm. C. Co. ....   | 2                | .....                                 | 247,284                  | 224,187                                       | 2,079                                   | 6,358                | 14,660                       |
|         | ..do. ....                   | 1                | Coal City .....                       | 168,337                  | 159,356                                       | .....                                   | 1,371                | 7,610                        |
|         | ..do. ....                   | 1                | Carbon Hill .....                     | 78,947                   | 64,831  | 2,079                                   | 4,987                | 7,050                        |
| 61      | Chicago-Sandoval C. Co. .... | 2                | Sandoval .....                        | 244,895                  | 234,525                                       | .....                                   | 3,962                | 6,408                        |
| 62      | Ill. 3d Vein C. Co. ....     | 1                | Ladd .....                            | 238,549                  | 191,861                                       | 18,889                                  | 3,964                | 23,835                       |
| 63      | Kolb Coal Co. ....           | 4                | .....                                 | 236,666                  | 90,091  | 123,080                                 | 11,760               | 11,735                       |
|         | ..do. ....                   | 1                | Mascoutah .....                       | 117,790                  | 20,120  | 83,410                                  | 11,760               | 2,500                        |
|         | ..do. ....                   | 2                | New Athens .....                      | 93,601                   | 48,061  | 39,670                                  | .....                | 5,870                        |
|         | ..do. ....                   | 1                | Birkner .....                         | 25,275                   | 21,910  | .....                                   | .....                | 3,365                        |
| 64      | Eldorado C. M. Co. ....      | 1                | Eldorado .....                        | 231,966                  | 229,838                                       | .....                                   | 778                  | 1,350                        |
| 65      | Latham Coal Co. ....         | 1                | Lincoln .....                         | 227,586                  | 204,062                                       | .....                                   | 12,251               | 11,273                       |
| 66      | Pana Coal Co. ....           | 2                | Pana .....                            | 227,235                  | 93,527  | 26,348                                  | 100,863              | 6,497                        |
| 67      | Vivian Col. Co. ....         | 1                | Greenridge .....                      | 226,500                  | 220,672                                       | .....                                   | 1,619                | 4,209                        |
| 68      | Capitol Coal Co. ....        | 1                | Springfield .....                     | 222,792                  | 172,250                                       | .....                                   | 45,952               | 4,590                        |
| 69      | Kortkamp Coal Co. ....       | 1                | Hillsboro .....                       | 222,256                  | 219,492                                       | .....                                   | 764                  | 2,000                        |
| 70      | Carterville Coal Co. ....    | 1                | Carterville .....                     | 218,418                  | 212,623                                       | .....                                   | 1,510                | 4,285                        |
| 71      | Coal Valley M. Co. ....      | 2                | .....                                 | 217,417                  | 199,052                                       | 1,393                                   | 5,892                | 11,080                       |
|         | ..do. ....                   | 1                | Sherrard .....                        | 111,800                  | 97,320  | 1,393                                   | 5,892                | 7,195                        |
|         | ..do. ....                   | 1                | Matherville .....                     | 105,617                  | 101,732                                       | .....                                   | .....                | 3,885                        |
| 72      | Missouri & Ill. C. Co. ....  | 4                | .....                                 | 215,176                  | 210,146                                       | .....                                   | 480                  | 4,550                        |
|         | ..do. ....                   | 1                | Willisville .....                     | 128,712                  | 127,204                                       | .....                                   | 300                  | 1,208                        |
|         | ..do. ....                   | 1                | Rentchler .....                       | 51,603                   | 49,628  | .....                                   | 125                  | 1,850                        |
|         | ..do. ....                   | 1                | Wilderman .....                       | 26,728                   | 25,505  | .....                                   | 55                   | 1,168                        |
|         | ..do. ....                   | 1                | Freeburg .....                        | 8,133                    | 7,809   | .....                                   | .....                | 324                          |
| 73      | Franklin C. & C. Co. ....    | 1                | Royalton .....                        | 212,112                  | 205,777                                       | .....                                   | 985                  | 5,350                        |
| 74      | Glenridge Coal Co. ....      | 1                | Virden .....                          | 212,096                  | 192,946                                       | .....                                   | 10,542               | 8,608                        |
| 75      | Citizens' C. M. Co. ....     | 3                | .....                                 | 210,683                  | 151,746                                       | 23,814                                  | 23,193               | 11,930                       |
|         | ..do. ....                   | 2                | Springfield .....                     | 114,712                  | 106,117                                       | .....                                   | 6,933                | 1,662                        |
|         | ..do. ....                   | 1                | Lincoln .....                         | 95,971                   | 45,629  | 23,814                                  | 16,260               | 10,268                       |

Table 19—Continued.

| Number. | Name of operator.             | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|---------|-------------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|         |                               |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplied to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
| 76      | Monmouth Coal Co. ....        | 1                | Brereton .....                        | 206,430                  | 201,094                                       | .....                                   | .....                | 5,336                        |
| 77      | Oglesby Coal Co. ....         | 1                | Oglesby .....                         | 205,737                  | 186,864                                       | 1,181                                   | 6,250                | 11,442                       |
| 78      | Chicago & B. M. C. Co. ....   | 1                | Marion .....                          | 204,392                  | 200,615                                       | .....                                   | 262                  | 3,515                        |
| 79      | Electric C. Co. ....          | 1                | Danville .....                        | 201,857                  | 197,477                                       | .....                                   | .....                | 4,380                        |
| 80      | Hafer W. Coal Co. ....        | 1                | Cartersville .....                    | 200,137                  | 185,127                                       | .....                                   | 400                  | 14,610                       |
| 81      | Chi. Springfield C. Co. ....  | 1                | Springfield .....                     | 199,478                  | 194,729                                       | .....                                   | .....                | 4,749                        |
| 82      | Ohio Valley M. Co. ....       | 1                | West Frankfort .....                  | 197,773                  | 184,594                                       | .....                                   | 6,293                | 6,886                        |
| 83      | Sangamon C. Co. ....          | 1                | Springfield .....                     | 197,301                  | 184,799                                       | .....                                   | 8,376                | 4,126                        |
| 84      | West Virginia C. Co. ....     | 1                | Marion .....                          | 192,357                  | 188,062                                       | .....                                   | 1,000                | 3,295                        |
| 85      | Penwell C. M. Co. ....        | 1                | Pana .....                            | 190,104                  | 140,990                                       | 25,461                                  | 16,162               | 7,491                        |
| 86      | Cantrall Coop. C. Co. ....    | 2                | .....                                 | 187,070                  | 164,126                                       | 10,450                                  | 8,719                | 3,775                        |
|         | do .....                      | 1                | Cantrall .....                        | 117,291                  | 103,786                                       | 10,450                                  | 1,469                | 1,586                        |
|         | do .....                      | 1                | Springfield .....                     | 69,779                   | 60,340  | .....                                   | 7,250                | 2,189                        |
| 87      | Crescent Coal Co. ....        | 1                | Peoria .....                          | 180,325                  | 179,696                                       | .....                                   | .....                | 629                          |
| 88      | Cora Coal Co. ....            | 1                | Springfield .....                     | 179,609                  | 177,167                                       | .....                                   | 1,132                | 1,310                        |
| 89      | Big Muddy Fuel Co. ....       | 1                | Johnston City .....                   | 179,381                  | 174,976                                       | .....                                   | 855                  | 3,550                        |
| 90      | Majestic C. & C. Co. ....     | 1                | Duquoin .....                         | 176,038                  | 170,000                                       | .....                                   | .....                | 6,038                        |
| 91      | Stonington C. Co. ....        | 1                | Stonington .....                      | 175,516                  | 161,492                                       | .....                                   | 7,017                | 7,007                        |
| 92      | Cartersville Dist. C. Co. ..  | 1                | Marion .....                          | 174,390                  | 156,390                                       | .....                                   | .....                | 18,000                       |
| 93      | Paradise Coal Co. ....        | 1                | Duquoin .....                         | 173,789                  | 143,255                                       | 23,472                                  | 1,660                | 5,402                        |
| 94      | Muddy Valley M. Co. ....      | 1                | Hallidayboro ..                       | 173,242                  | 107,582                                       | 44,941                                  | 3,025                | 17,694                       |
| 95      | Duquoin Operating Co. ....    | 1                | Duquoin .....                         | 169,416                  | 165,000                                       | .....                                   | 216                  | 4,200                        |
| 96      | Odin Coal Co. ....            | 1                | Odin .....                            | 167,138                  | 154,572                                       | .....                                   | 2,446                | 10,120                       |
| 97      | North Breese C. & M. Co. .... | 1                | Breese .....                          | 163,726                  | 160,021                                       | .....                                   | .....                | 3,705                        |
| 98      | Canton Coal M. Co. ....       | 1                | Canton .....                          | 158,817                  | 157,017                                       | .....                                   | .....                | 1,800                        |
| 99      | Superior C. & M. Co. ....     | 1                | Belleville .....                      | 158,622                  | 155,944                                       | .....                                   | .....                | 2,678                        |
| 100     | Pond Creek Coal Co. ....      | 1                | Herrin .....                          | 158,089                  | 150,689                                       | .....                                   | 100                  | 7,300                        |
| 101     | Wilmington Star C. Co. ....   | 2                | Coal City .....                       | 157,522                  | 147,678                                       | .....                                   | 3,913                | 5,931                        |
| 102     | Norris C. & M. Co. ....       | 1                | Norris .....                          | 156,331                  | 131,301                                       | 19,600                                  | 1,935                | 3,495                        |
| 103     | Suburban C. & M. Co. ....     | 1                | Belleville .....                      | 151,603                  | 143,796                                       | .....                                   | 5,446                | 2,361                        |
| 104     | Standard Col. Co. ....        | 1                | Johnston City .....                   | 149,666                  | 142,125                                       | 635                                     | 1,873                | 5,033                        |
| 105     | Marquette 3d Vein C. Co. .... | 1                | Marquette .....                       | 148,475                  | 135,353                                       | .....                                   | 2,027                | 11,095                       |
| 106     | Jones Bros. C. Co. ....       | 2                | Marissa .....                         | 138,989                  | 129,987                                       | .....                                   | 2,620                | 6,382                        |
| 107     | Smith-Lohr C. Co. ....        | 1                | Pana .....                            | 134,885                  | 116,517                                       | .....                                   | 4,916                | 13,452                       |

Table 19—Continued.

| Number. | Name of operator.                | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|---------|----------------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|         |                                  |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplied to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
| 108     | Clover Leaf M. Co. ....          | 1                | Coffeen. ....                         | 134,247                  | 124,462                                       | .....                                   | 2,560                | 7,225                        |
| 109     | Eagle Mining Co. ....            | 1                | Canton. ....                          | 132,360                  | 110,656                                       | 12,227                                  | 6,953                | 2,524                        |
| 110     | Royal C. & M. Co. ....           | 1                | Belleville. ....                      | 131,700                  | 130,279                                       | .....                                   | 491                  | 930                          |
| 111     | Pocahontas M. Co. ....           | 1                | Pocahontas. ....                      | 131,527                  | 123,380                                       | .....                                   | 3,767                | 4,380                        |
| 112     | Security C. & M. Co. ....        | 1                | Duquoin. ....                         | 130,575                  | 127,843                                       | .....                                   | 631                  | 2,101                        |
| 113     | Auburn & Alton C. Co. ....       | 1                | Auburn. ....                          | 127,924                  | 116,953                                       | .....                                   | 8,971                | 2,000                        |
| 114     | Simmons C. Co. ....              | 1                | Canton. ....                          | 126,463                  | 123,908                                       | .....                                   | .....                | 2,555                        |
| 115     | Tazewell C. Co. ....             | 1                | Pekin. ....                           | 126,206                  | 111,005                                       | .....                                   | 11,996               | 3,205                        |
| 116     | Carterville & Her. C. Co. ....   | 1                | Herrin. ....                          | 125,531                  | 121,151                                       | .....                                   | 730                  | 3,650                        |
| 117     | Williamson Co. C. Co. ....       | 1                | Johnston City. ....                   | 125,523                  | 124,863                                       | .....                                   | .....                | 660                          |
| 118     | Kerns Donnewald C. Co. ....      | 1                | Worden. ....                          | 122,584                  | 117,399                                       | .....                                   | 1,535                | 3,650                        |
| 119     | Roanoke Coal Co. ....            | 1                | Roanoke. ....                         | 122,552                  | 104,288                                       | 6,013                                   | 6,030                | 6,221                        |
| 120     | T. J. O'Gara. ....               | 1                | Springfield. ....                     | 121,344                  | 100,019                                       | .....                                   | 19,823               | 1,502                        |
| 121     | Wenona Coal Co. ....             | 1                | Wenona. ....                          | 121,106                  | 107,096                                       | .....                                   | 9,720                | 4,290                        |
| 122     | West End Coal Co. ....           | 1                | Springfield. ....                     | 119,261                  | 90,320  | .....                                   | 24,141               | 4,800                        |
| 123     | Williamsville Coal Co. ....      | 1                | Selbytown. ....                       | 118,941                  | 114,687                                       | .....                                   | 658                  | 3,596                        |
| 124     | Manu. & Con. C. Co. ....         | 1                | Decatur. ....                         | 117,573                  | 45,622  | .....                                   | 65,945               | 6,006                        |
| 125     | Springfield Coop. C. Co. ....    | 1                | Springfield. ....                     | 115,300                  | 79,750  | .....                                   | 31,700               | 3,850                        |
| 126     | Danville Col. Co. ....           | 1                | Catlin. ....                          | 115,176                  | 113,875                                       | .....                                   | 1,301                | .....                        |
| 127     | St. L. & Carterville C. Co. .... | 1                | Herrin. ....                          | 114,866                  | 111,876                                       | .....                                   | 906                  | 2,084                        |
| 128     | Lefton Coal Co. ....             | 1                | Auburn. ....                          | 112,648                  | 109,648                                       | .....                                   | .....                | 3,000                        |
| 129     | Wilson Bros. C. Co. ....         | 1                | Sparta. ....                          | 112,312                  | 109,018                                       | .....                                   | 2,232                | 1,062                        |
| 130     | Decatur Coal Co. ....            | 3                | .....                                 | 111,612                  | 38,492  | .....                                   | 66,189               | 6,931                        |
|         | ..do. ....                       | 2                | Decatur. ....                         | 71,870                   | 8,323   | .....                                   | 59,927               | 3,620                        |
|         | ..do. ....                       | 1                | Niantie. ....                         | 39,742                   | 30,169  | .....                                   | 6,262                | 3,311                        |
| 131     | Carterville & B. M. C. Co. ....  | 1                | Cambria. ....                         | 110,015                  | 104,617                                       | .....                                   | 1,653                | 3,745                        |
| 132     | Watson Coal Co. ....             | 2                | Herrin. ....                          | 109,700                  | 107,927                                       | 418                                     | 300                  | 1,055                        |
| 133     | Deming & Cruickshank. ....       | 1                | Peoria. ....                          | 109,648                  | 105,648                                       | .....                                   | .....                | 4,000                        |
| 134     | Newsam Bros. ....                | 1                | Kingston Mines. ....                  | 108,233                  | 105,864                                       | .....                                   | 186                  | 2,183                        |
| 135     | Wabash Coal Co. ....             | 1                | Dawson. ....                          | 105,191                  | 99,190  | .....                                   | 2,767                | 3,234                        |
| 136     | Wilm. C. M. & Mfg. Co. ....      | 1                | Torino. ....                          | 102,662                  | 93,844  | .....                                   | 3,468                | 5,350                        |
| 137     | Car. & Frank Cos.' C. C. ....    | 1                | Hanaford. ....                        | 99,540                   | 92,632  | .....                                   | 1,354                | 5,554                        |
| 138     | Illinois Fuel Co. ....           | 1                | Sparta. ....                          | 97,508                   | 94,987  | .....                                   | .....                | 2,521                        |
| 139     | Farmersville C. M. Co. ....      | 1                | Farmersville. ....                    | 94,490                   | 87,644  | .....                                   | 5,589                | 1,257                        |
| 140     | Ritehey Coal Co. ....            | 1                | Pinekeyville. ....                    | 92,612                   | 60,568  | 25,565                                  | 4,267                | 2,212                        |

Table 19—Continued.

| Number. | Name of operator.             | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|---------|-------------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|         |                               |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplied to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
| 141     | Lincoln Mining Co .....       | 1                | Lincoln .....                         | 91,000                   | 60,000  | .....                                   | 24,000               | 7,000                        |
| 142     | Moffat Coal Co. ....          | 1                | Sparta .....                          | 89,964                   | 87,064  | .....                                   | 800                  | 2,100                        |
| 143     | Gus Blair B. M. C. Co..       | 2                | Murphysboro..                         | 88,173                   | 73,449  | .....                                   | 8,807                | 5,917                        |
| 144     | Tuxhorn Coal Co. ....         | 1                | Springfield....                       | 88,066                   | 83,870  | .....                                   | 1,896                | 2,300                        |
| 145     | Wolschlag Coop. C. Co..       | 1                | Peoria .....                          | 87,841                   | 78,604  | 7,430                                   | 39                   | 1,768                        |
| 146     | DeCamp C. M. Co. ....         | 1                | Staunton .....                        | 87,349                   | 83,519  | .....                                   | 50                   | 3,780                        |
| 147     | Fullerton Coal Co .....       | 1                | Belleville .....                      | 86,283                   | 85,083  | .....                                   | 200                  | 1,000                        |
| 148     | Barelay C. M. Co. ....        | 1                | Barelay .....                         | 81,658                   | 75,985  | .....                                   | 1,173                | 4,500                        |
| 149     | Bessemer C. & M. Co. .        | 3                | .....                                 | 77,604                   | 68,300  | 4,978                                   | 2,294                | 2,032                        |
|         | do .....                      | 2                | Tilden .....                          | 59,602                   | 56,295  | .....                                   | 2,124                | 1,183                        |
|         | do .....                      | 1                | Pinckneyville..                       | 18,002                   | 12,005  | 4,978                                   | 170                  | 849                          |
| 150     | McLean Co. C. Co. ....        | 1                | Bloomington...                        | 77,153                   | 1,380   | 20,498                                  | 47,053               | 8,222                        |
| 151     | Carlinville Coal Co. ....     | 1                | Carlinville .....                     | 76,939                   | 52,977  | 2,004                                   | 17,898               | 4,060                        |
| 152     | International C. M. Co..      | 2                | O'Fallon .....                        | 75,793                   | 66,522  | .....                                   | 1,832                | 7,439                        |
| 153     | Illinois Zinc Co. ....        | 1                | Peru .....                            | 75,585                   | 72,184  | .....                                   | 845                  | 2,556                        |
| 154     | Spring Creek C. Co. ....      | 1                | Springfield....                       | 75,453                   | 72,640  | .....                                   | 444                  | 2,369                        |
| 155     | Assumption C. M. Co. .        | 1                | Assumption....                        | 75,265                   | 54,976  | .....                                   | 9,968                | 10,321                       |
| 156     | Dickerson Coal Co. ....       | 1                | Springfield....                       | 74,863                   | 69,557  | .....                                   | 1,469                | 3,837                        |
| 157     | Harrison Coal Co. ....        | 1                | Streator .....                        | 74,668                   | 55,763  | .....                                   | 2,348                | 16,557                       |
| 158     | Tilton Coal Co. ....          | 1                | Danville .....                        | 73,941                   | 70,941  | .....                                   | .....                | 3,000                        |
| 159     | National C. M. Co. ....       | 1                | Farmington....                        | 73,471                   | 70,471  | .....                                   | 1,000                | 2,000                        |
| 160     | Murphy, Linsky & Kasher ..... | 1                | Braidwood .....                       | 71,781                   | 64,579  | .....                                   | 6,102                | 1,100                        |
| 161     | Donally-Koenecke C. Co.       | 1                | Cartersville .....                    | 71,734                   | 68,652  | .....                                   | 584                  | 2,498                        |
| 162     | Seranton & B. M. C. Co.       | 1                | Marion .....                          | 70,202                   | 68,730  | .....                                   | 100                  | 1,372                        |
| 163     | Gartside Coal Co .....        | 1                | Murphysboro..                         | 68,977                   | 44,277  | .....                                   | 19,230               | 5,470                        |
| 164     | Wabash Coal Co. ....          | 1                | Athens .....                          | 68,551                   | 59,026  | .....                                   | 4,901                | 4,624                        |
| 165     | Borders Coal Co. ....         | 1                | Marissa .....                         | 64,218                   | 57,841  | .....                                   | 5,202                | 1,175                        |
| 166     | Brilliant C. & C. Co .....    | 1                | Duquoin .....                         | 61,780                   | 58,130  | .....                                   | 1,200                | 2,450                        |
| 167     | Century Coal Co. ....         | 1                | Tower Hill .....                      | 61,409                   | 52,376  | .....                                   | 3,405                | 5,628                        |
| 168     | Minonk Coal Co. ....          | 1                | Minonk .....                          | 61,344                   | 51,294  | .....                                   | 6,250                | 3,800                        |
| 169     | Robert Dick Coal Co ...       | 1                | Cambria .....                         | 59,291                   | 53,291  | .....                                   | 3,000                | 3,000                        |
| 170     | Big M.-Cartersville M. Co.    | 1                | Royalton .....                        | 58,602                   | 56,138  | .....                                   | 954                  | 1,510                        |
| 171     | Bald Eagle M. Co .....        | 1                | Craig .....                           | 57,498                   | 52,000  | .....                                   | 1,500                | 3,998                        |
| 172     | Pittsburg Mining Co. ....     | 1                | Belleville .....                      | 56,450                   | 44,370  | .....                                   | 11,290               | 790                          |
| 173     | Acme Coal Co .....            | 1                | Streator .....                        | 56,314                   | 28,308  | .....                                   | 15,281               | 12,725                       |

Table 19—Continued.

| Number. | Name of operator.          | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|---------|----------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|         |                            |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplied to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
| 174     | Johnson Coal Co.....       | 1                | Marissa.....                          | 56,167                   | 54,140  | .....                                   | .....                | 2,027                        |
| 175     | Randolph Co. C. Co....     | 1                | Coulterville.....                     | 55,006                   | 50,930  | .....                                   | 3,176                | 900                          |
| 176     | Ill. Valley Coal Co.....   | 2                | Sparland.....                         | 54,268                   | 53,765  | .....                                   | 503                  | .....                        |
| 177     | Lovington Coal Co.....     | 1                | Lovington.....                        | 54,162                   | 44,921  | .....                                   | 3,666                | 5,575                        |
| 178     | Moweaqua Coal Co.....      | 1                | Moweaqua.....                         | 53,426                   | 38,254  | .....                                   | 10,864               | 4,308                        |
| 179     | Mission Mining Co.....     | 1                | Danville.....                         | 53,248                   | 53,000  | .....                                   | 248                  | .....                        |
| 180     | No. Coal & Sup. Co.....    | 1                | Sorento.....                          | 51,653                   | 47,607  | .....                                   | 2,380                | 1,666                        |
| 181     | Applegate & Lewis C. Co.   | 1                | Hanna City.....                       | 51,503                   | 48,503  | .....                                   | 600                  | 2,400                        |
| 182     | Brewster & Evans C. Co.    | 1                | Peoria.....                           | 49,946                   | 49,946  | .....                                   | .....                | .....                        |
| 183     | Cahill Coal Co.....        | 1                | Peru.....                             | 49,270                   | 26,580  | 5,289                                   | 13,594               | 3,807                        |
| 184     | Silver Creek Col. Co....   | 1                | Farmington.....                       | 48,335                   | 46,135  | .....                                   | 500                  | 1,700                        |
| 185     | Tallula Coal Co.....       | 1                | Tallula.....                          | 47,712                   | 41,566  | .....                                   | 5,091                | 1,055                        |
| 186     | Litchfield Coal Co.....    | 1                | Litchfield.....                       | 44,050                   | 30,647  | .....                                   | 11,403               | 2,000                        |
| 187     | Kewaukee Coal Co.....      | 1                | Kewanee.....                          | 42,995                   | 38,422  | .....                                   | 3,009                | 1,564                        |
| 188     | Olympia C. & M. Co....     | 1                | Edwards.....                          | 42,900                   | 40,765  | .....                                   | 300                  | 1,835                        |
| 189     | City Coal Co.....          | 1                | Edwardsville..                        | 42,442                   | 21,838  | 4,589                                   | 13,489               | 2,526                        |
| 190     | Blue Mound Coal Co....     | 1                | Blue Mound..                          | 42,441                   | 32,159  | .....                                   | 6,590                | 3,692                        |
| 191     | Black Diamond C. Co....    | 1                | Danville.....                         | 42,370                   | 42,370  | .....                                   | .....                | .....                        |
| 192     | Rutland Coal Co.....       | 1                | Rutland.....                          | 40,666                   | 25,576  | 7,296                                   | 4,508                | 3,286                        |
| 193     | Summit C. & M. Co....      | 1                | Belleville.....                       | 40,532                   | 39,688  | .....                                   | 316                  | 528                          |
| 194     | Egyptian C. & M. Co....    | 2                | Marissa.....                          | 40,531                   | 37,233  | .....                                   | 640                  | 2,658                        |
| 195     | Mulberry Hill Coal Co...   | 1                | Freeburg.....                         | 40,440                   | 38,400  | .....                                   | 960                  | 1,080                        |
| 196     | Dewey C. & M. Co.....      | 1                | Belleville.....                       | 40,200                   | 39,700  | .....                                   | .....                | 500                          |
| 197     | South Mountain C. Co...    | 1                | Petersburg.....                       | 38,950                   | 24,841  | 1,981                                   | 11,528               | 600                          |
| 198     | Pittsburg B. M. C. Co..    | 1                | Pittsburg.....                        | 38,363                   | 36,163  | .....                                   | 1,000                | 1,200                        |
| 199     | Fairmount Coal Co.....     | 1                | Fairmount.....                        | 38,250                   | 31,350  | .....                                   | 5,640                | 1,260                        |
| 200     | Collier Coop. Coal Co...   | 1                | Bartonville....                       | 38,220                   | 37,020  | .....                                   | .....                | 1,200                        |
| 201     | Edwardsville H. T. C. C.   | 1                | Edwardsville..                        | 37,997                   | 17,500  | .....                                   | 20,097               | 400                          |
| 202     | Boyd C. & C. Co.....       | 1                | Sparta.....                           | 37,951                   | 34,889  | .....                                   | 2,241                | 821                          |
| 203     | St. L.-Coulterville C. Co. | 1                | Coulterville....                      | 37,192                   | 32,916  | .....                                   | 3,076                | 1,200                        |
| 204     | Johnson-Allen Coal Co..    | 1                | Cutler.....                           | 37,000                   | 37,000  | .....                                   | .....                | .....                        |
| 205     | Wilharmel C. & C. Co..     | 1                | Belleville.....                       | 36,890                   | 29,163  | .....                                   | 7,120                | 607                          |
| 206     | Eastern Coal Co.....       | 1                | Peoria.....                           | 34,912                   | 15,268  | .....                                   | 18,863               | 781                          |
| 207     | Greenview M. Co.....       | 1                | Greenview.....                        | 34,022                   | 27,745  | .....                                   | 4,741                | 1,536                        |

Table 19—Continued.

| Number. | Name of operator.        | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|---------|--------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|         |                          |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplies to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
| 208     | Norris City Coal Co..... | 1                | Norris City .....                     | 31,774                   | 19,936  | 3,546                                   | 6,753                | 1,539                        |
| 209     | Hl. Central Fuel Co..... | 1                | Nilwood .....                         | 30,850                   | 26,800  | .....                                   | 3,050                | 1,000                        |
| 210     | Fairbury Coal Co.....    | 1                | Fairbury .....                        | 29,682                   | 4,793   | 16,356                                  | 1,486                | 7,047                        |
| 211     | Glendale C. & M. Co..... | 1                | Belleville .....                      | 29,660                   | 23,083  | .....                                   | 5,504                | 1,073                        |
| 212     | Groom Coal Co.....       | 1                | Belleville .....                      | 29,405                   | 28,910  | .....                                   | 195                  | 300                          |
| 213     | Bushong Bros.....        | 1                | Muncie .....                          | 28,819                   | 25,000  | .....                                   | 2,816                | 1,003                        |
| 214     | Gallatin C. & C. Co..... | 1                | Equality .....                        | 28,439                   | 23,064  | 4,615                                   | 629                  | 131                          |
| 215     | Spoon River Coal Co ...  | 1                | Mayton .....                          | 27,444                   | 25,967  | .....                                   | 200                  | 1,277                        |
| 216     | Ubben Coal Co.....       | 1                | Pekin.....                            | 26,930                   | 15,930  | .....                                   | 10,000               | 1,000                        |
| 217     | J. B. Kreichemeir .....  | 1                | DeSoto.....                           | 26,749                   | 24,999  | .....                                   | 50                   | 1,700                        |
| 218     | Bailey Bros. C. Co.....  | 2                | Sunfield .....                        | 26,646                   | 22,410  | .....                                   | 3,236                | 1,000                        |
| 219     | L. Senior Coal Co.....   | 1                | Belleville .....                      | 25,910                   | 23,760  | .....                                   | 1,250                | 900                          |
| 220     | Cluly-Miller Coal Co.... | 1                | Caseyville .....                      | 25,584                   | 25,000  | .....                                   | .....                | 584                          |
| 221     | Mapleton Coal Co.....    | 1                | Mapleton .....                        | 24,221                   | 23,721  | .....                                   | .....                | 500                          |
| 222     | Gauch Coal Co.....       | 1                | Rentchler.....                        | 23,740                   | 22,536  | .....                                   | 173                  | 1,031                        |
| 223     | Little Muddy Fuel Co..   | 1                | Tamaroa.....                          | 22,780                   | 18,708  | .....                                   | 3,694                | 378                          |
| 224     | Tirre C. & M. Co. ....   | 1                | Lenzburg.....                         | 22,414                   | 21,349  | .....                                   | 465                  | 600                          |
| 225     | Warsaw Coal Co.....      | 1                | Edwards.....                          | 22,312                   | 21,364  | .....                                   | 95                   | 853                          |
| 226     | Wilson Coal Co.....      | 1                | Cutler.....                           | 22,130                   | 15,202  | .....                                   | 1,566                | 963                          |
| 227     | Highland Coal Co.....    | 1                | Belleville.....                       | 22,038                   | 8,036   | 1,089                                   | 11,282               | 1,631                        |
| 228     | F. Sargent & Son.....    | 1                | do.....                               | 21,429                   | 20,603  | .....                                   | 200                  | 626                          |
| 229     | Lancaster Ldg. C. Co...  | 1                | Kingston Mine.                        | 21,402                   | 20,652  | .....                                   | 500                  | 250                          |
| 230     | Isaac Wantling & Co...   | 1                | Peoria.....                           | 20,972                   | 20,972  | .....                                   | .....                | .....                        |
| 231     | St. Louis C. & C. Co.... | 1                | Galatia.....                          | 20,000                   | 15,500  | .....                                   | 4,000                | 500                          |
| 232     | Colfax Corp. Co.....     | 1                | Colfax.....                           | 19,745                   | 9,267   | 2,806                                   | 5,008                | 2,664                        |
| 233     | Maul C. & M. Co.....     | 1                | Belleville.....                       | 19,367                   | 18,299  | .....                                   | .....                | 1,068                        |
| 234     | Hickory Hill C. Co.....  | 1                | Equality.....                         | 19,225                   | 19,225  | .....                                   | .....                | .....                        |
| 235     | Vulcan C. & M. Co.....   | 1                | Belleville.....                       | 18,259                   | 17,014  | .....                                   | .....                | 1,245                        |
| 236     | T. M. Meeks Coal Co....  | 1                | Marissa.....                          | 17,875                   | 17,296  | .....                                   | 6                    | 573                          |
| 237     | Nicholson Coal Co.....   | 1                | Nashville.....                        | 17,842                   | 6,028   | 2,055                                   | 9,109                | 650                          |
| 238     | Sharon C. & B. Co.....   | 1                | Georgetown....                        | 17,715                   | 1,296   | .....                                   | 15,887               | 532                          |
| 239     | Adam Kuhn.....           | 1                | Dubois.....                           | 17,280                   | 11,000  | .....                                   | 3,000                | 3,280                        |
| 240     | White & Son.....         | 1                | Belleville.....                       | 16,983                   | 10,483  | .....                                   | 6,286                | 214                          |
| 241     | Brookside Coal Co.....   | 1                | Troy.....                             | 16,535                   | 11,574  | .....                                   | 3,300                | 1,661                        |
| 242     | Cresecent Coal Co.....   | 1                | Equality.....                         | 15,463                   | 14,043  | .....                                   | 945                  | 475                          |

Table 19—Concluded.

| Number. | Name of operator.          | Number of mines. | Postoffice address, location of mine. | Total output all grades. | Disposition of output.                        |   |                      |                              |
|---------|----------------------------|------------------|---------------------------------------|--------------------------|---|---|----------------------|------------------------------|
|         |                            |                  |                                       |                          | Tons loaded on cars at the mine for shipment. | Supplies to locomotives at mine chutes. | Sold to local trade. | Consumed and wasted at mine. |
| 243     | German Coal Co. ....       | 1                | Napleton.....                         | 15,214                   | 13,818  | .....                                   | 992                  | 404                          |
| 244     | W. S. Walker. ....         | 1                | Edwardsville...                       | 15,100                   | 13,600  | .....                                   | 1,000                | 500                          |
| 245     | West-Mine C. Co. ....      | 1                | Coulterville....                      | 15,044                   | 12,971  | .....                                   | 1,005                | 1,068                        |
| 246     | Mt. Pulaski Coal Co. ....  | 1                | Mt. Pulaski....                       | 14,998                   | 2,800   | .....                                   | 10,958               | 1,240                        |
| 247     | Reeb Coal Co. ....         | 1                | Belleville.....                       | 14,324                   | 7,802   | .....                                   | 6,522                | .....                        |
| 248     | Champion Coal Co. ....     | 1                | Pekin.....                            | 14,000                   | 11,500  | 900                                     | 1,000                | 600                          |
| 249     | Wyoming M. Co. ....        | 1                | Wyoming.....                          | 13,326                   | 10,056  | .....                                   | 2,320                | 950                          |
| 250     | Coal Creek M. Co. ....     | 1                | Fairview.....                         | 13,071                   | 13,071  | .....                                   | .....                | .....                        |
| 251     | Central Ill. Fuel Co. .... | 1                | Coal Valley....                       | 13,040                   | 11,135  | .....                                   | 825                  | 1,060                        |
| 252     | Avery Coal Co. ....        | 1                | Freeburg.....                         | 12,865                   | 11,179  | .....                                   | 1,155                | 531                          |
| 253     | Joe Morris C. Co. ....     | 1                | Duquoin.....                          | 11,983                   | 10,983  | 4,399                                   | 600                  | 400                          |
| 254     | West Frankfort C. Co. ...  | 1                | West Frankfort                        | 11,401                   | 4,169   | .....                                   | 4,213                | 3,019                        |
| 255     | Sunlight Coal Co. ....     | 1                | Freeburg.....                         | 10,886                   | 10,049  | .....                                   | 450                  | 387                          |
| 256     | Traer Coal Co. ....        | 1                | Danville.....                         | 10,775                   | 10,480  | .....                                   | 250                  | 45                           |
| 257     | New Nat. C. & M. Co. ...   | 1                | Belleville.....                       | 8,992                    | 8,492   | .....                                   | .....                | 500                          |
| 258     | Fulton Co. C. Co. ....     | 1                | Sparland.....                         | 8,884                    | 2,260   | .....                                   | 5,649                | 975                          |
| 259     | Spicer Coal Co. ....       | 1                | Marseilles.....                       | 8,869                    | 6,043   | .....                                   | 2,368                | 458                          |
| 260     | Mt. Vernon Coal Co. ....   | 1                | Mt. Vernon....                        | 7,958                    | 3,122   | .....                                   | 3,916                | 920                          |
| 261     | Silver Creek C. Co. ....   | 1                | Mascoutah....                         | 7,824                    | 7,664   | .....                                   | .....                | 160                          |
| 262     | C. J. Off. ....            | 1                | Peoria.....                           | 7,754                    | 7,690   | .....                                   | .....                | 64                           |
| 263     | Missionfields C. Co. ....  | 2                | Danville.....                         | 6,314                    | 6,185   | .....                                   | 129                  | .....                        |
| 264     | Strait Coal Co. ....       | 1                | Pinckneyville..                       | 3,846                    | 1,231   | .....                                   | 2,315                | 300                          |
| 265     | Golden Rule Coal Co. ...   | 1                | Lenzburg.....                         | 3,042                    | 1,547   | .....                                   | 1,245                | 250                          |
| 266     | Orion Coal Co. ....        | 1                | Duquoin.....                          | 2,400                    | 2,200   | .....                                   | .....                | 200                          |
| 267     | Eldnar Coal Co. ....       | 1                | Belleville.....                       | 2,147                    | 2,052   | .....                                   | 15                   | 80                           |
| 268     | Wilfred Coal Co. ....      | 1                | Seneca.....                           | 1,938                    | 400   | .....                                   | 1,138                | 400                          |

## CLASSIFICATION OF OWNERSHIP.

Table 20. The classification of the ownership of the shipping mines for a series of nine years is given in this table.

TABLE 20—*Number of shipping mines and location with classification of ownership for nine years.*

| Year.     | Total number of mines. | Number of locations. | Operators.    |        |              | Total. |
|-----------|------------------------|----------------------|---------------|--------|--------------|--------|
|           |                        |                      | Corporations. | Firms. | Individuals. |        |
| 1904..... | 380                    | 175                  | 228           | 20     | 35           | 273    |
| 1905..... | 397                    | 173                  | 242           | 21     | 17           | 280    |
| 1906..... | 419                    | 178                  | 248           | 21     | 16           | 285    |
| 1907..... | 411                    | 180                  | 261           | 9      | 6            | 276    |
| 1908..... | 407                    | 172                  | 251           | 8      | 9            | 268    |
| 1909..... | 384                    | 171                  | 252           | 7      | 8            | 267    |
| 1910..... | 390                    | 185                  | 253           | 8      | 7            | 268    |
| 1911..... | 387                    | 184                  | 260           | 9      | 3            | 272    |
| 1912..... | 380                    | 175                  | 258           | 6      | 4            | 268    |

## LOCATION OF MINES.

Table 21 is a list of the 275 places where the mines are operated. The locations are arranged in alphabetical order and show the county, the inspection district, the number of mines, men employed and tons produced at each.

TABLE 21—*Location of all mines, showing county and district, also number of mines, men and tons.*

| No. | Location of mines. | County.        | Number of— |        |      |         |
|-----|--------------------|----------------|------------|--------|------|---------|
|     |                    |                | District.  | Mines. | Men. | Tons.   |
| 1   | Aledo.....         | Mercer.....    | 2          | 2      | 16   | 7,848   |
| 2   | Alexis.....        | Warren.....    | 2          | 3      | 14   | 5,242   |
| 3   | Alsey.....         | Scott.....     | 4          | 4      | 11   | 2,930   |
| 4   | Alton.....         | Madison.....   | 8          | 1      | 4    | 700     |
| 5   | Assumption.....    | Christian..... | 5          | 1      | 158  | 75,265  |
| 6   | Astoria.....       | Fulton.....    | 4          | 7      | 27   | 8,173   |
| 7   | Athens.....        | Menard.....    | 3          | 1      | 130  | 68,561  |
| 8   | Atkinson.....      | Henry.....     | 2          | 1      | 4    | 560     |
| 9   | Auburn.....        | Sangamon.....  | 6          | 3      | 665  | 552,172 |



Table 21—Continued.

| No. | Location of mines. | County.          | Number of— |        |       |           |
|-----|--------------------|------------------|------------|--------|-------|-----------|
|     |                    |                  | District.  | Mines. | Men.  | Tons.     |
| 10  | Angusta.....       | Hancock.....     | 4          | 1      | 7     | 2,920     |
| 11  | Ava.....           | Jackson.....     | 10         | 3      | 15    | 1,725     |
| 12  | Avon.....          | Fulton.....      | 4          | 8      | 24    | 3,772     |
| 13  | Banner.....        | do.....          | 4          | 1      | 2     | 500       |
| 14  | Barclay.....       | Sangamon.....    | 6          | 1      | 140   | 81,658    |
| 15  | Bartonville.....   | Peoria.....      | 3          | 4      | 91    | 83,691    |
| 16  | Beekemeyer.....    | Clinton.....     | 8          | 1      | 266   | 171,752   |
| 17  | Belleville.....    | St. Clair.....   | 9          | 32     | 2,258 | 1,962,055 |
| 18  | Benton.....        | Franklin.....    | 11         | 2      | 863   | 714,815   |
| 19  | Bethalto.....      | Madison.....     | 8          | 3      | 16    | 3,287     |
| 20  | Birkner.....       | St. Clair.....   | 9          | 1      | 44    | 25,275    |
| 21  | Birmingham.....    | McDonough.....   | 4          | 2      | 4     | 688       |
| 22  | Blandinville.....  | do.....          | 4          | 2      | 12    | 2,080     |
| 23  | Bloomington.....   | McLean.....      | 6          | 1      | 168   | 77,153    |
| 24  | Blue Mound.....    | Macon.....       | 5          | 1      | 76    | 42,441    |
| 25  | Braidwood.....     | Will.....        | 1          | 2      | 179   | 76,339    |
| 26  | Breeds.....        | Fulton.....      | 4          | 5      | 12    | 2,595     |
| 27  | Breese.....        | Clinton.....     | 8          | 3      | 667   | 488,929   |
| 28  | Brereton.....      | Fulton.....      | 4          | 1      | 292   | 206,430   |
| 29  | Briar Bluff.....   | Henry.....       | 2          | 5      | 8     | 1,253     |
| 30  | Brighton.....      | Jersey.....      | 7          | 1      | 3     | 800       |
| 31  | Primfield.....     | Peoria.....      | 3          | 6      | 26    | 11,043    |
| 32  | Bunker Hill.....   | Macoupin.....    | 7          | 3      | 26    | 21,624    |
| 33  | Bush.....          | Williamson.....  | 12         | 1      | 355   | 332,693   |
| 34  | Cable.....         | Mercer.....      | 2          | 2      | 7     | 1,406     |
| 35  | Cambria.....       | Williamson.....  | 12         | 2      | 327   | 169,306   |
| 36  | Cambridge.....     | Henry.....       | 2          | 1      | 7     | 898       |
| 37  | Campbell Hill..... | Jackson.....     | 10         | 1      | 1     | 253       |
| 38  | Canton.....        | Fulton.....      | 4          | 19     | 588   | 441,810   |
| 39  | Cantrall.....      | Sangamon.....    | 6          | 1      | 159   | 117,291   |
| 40  | Carbon Cliff.....  | Rock Island..... | 2          | 2      | 15    | 4,860     |
| 41  | Carbondale.....    | Jackson.....     | 10         | 4      | 24    | 12,345    |
| 42  | Carbon Hill.....   | Grundy.....      | 1          | 1      | 213   | 78,947    |
| 43  | Cardiff.....       | Livingston.....  | 1          | 1      | 32    | 5,309     |
| 44  | Carlinville.....   | Macoupin.....    | 7          | 1      | 108   | 76,939    |
| 45  | Carrier Mills..... | Saline.....      | 11         | 2      | 6     | 5,700     |
| 46  | Carterville.....   | Williamson.....  | 12         | 6      | 629   | 502,394   |

Table 21—Continued.

| No. | Location of mines.  | County.          | Number of— |        |       |           |
|-----|---------------------|------------------|------------|--------|-------|-----------|
|     |                     |                  | District.  | Mines. | Men.  | Tons.     |
| 47  | Caseyville.....     | St. Clair.....   | 9          | 2      | 40    | 27,284    |
| 48  | Catlin.....         | Vermilion.....   | 5          | 4      | 160   | 120,946   |
| 49  | Centralia.....      | Marion.....      | 8          | 4      | 1,135 | 944,875   |
| 50  | Cherry.....         | Bureau.....      | 2          | 1      | 402   | 228,369   |
| 51  | Chesterfield.....   | Maconpin.....    | 7          | 1      | 5     | 804       |
| 52  | Chillicothe.....    | Peoria.....      | 3          | 5      | 20    | 11,489    |
| 53  | Christopher.....    | Franklin.....    | 11         | 3      | 983   | 1,069,534 |
| 54  | Clifford.....       | Williamson.....  | 12         | 1      | 366   | 570,695   |
| 55  | Coal City.....      | Grundy.....      | 1          | 3      | 754   | 325,859   |
| 56  | Coal Valley.....    | Rock Island..... | 2          | 4      | 101   | 53,887    |
| 57  | Coffeen.....        | Montgomery.....  | 7          | 1      | 215   | 134,247   |
| 58  | Colchester.....     | McDonough.....   | 4          | 24     | 84    | 12,682    |
| 59  | Colfax.....         | McLean.....      | 6          | 1      | 32    | 19,745    |
| 60  | Collinsville.....   | Madison.....     | 8          | 8      | 1,306 | 1,111,311 |
| 61  | Collison.....       | Vermilion.....   | 5          | 1      | 13    | 4,000     |
| 62  | Coulterville.....   | Randolph.....    | 10         | 3      | 187   | 107,242   |
| 63  | Crab Orchard.....   | Williamson.....  | 12         | 6      | 16    | 2,770     |
| 64  | Craig.....          | Perry.....       | 10         | 1      | 149   | 57,498    |
| 65  | Cuba.....           | Fulton.....      | 4          | 23     | 510   | 264,993   |
| 66  | Cutler.....         | Perry.....       | 10         | 2      | 85    | 59,130    |
| 67  | Dahinda.....        | Knox.....        | 2          | 2      | 3     | 400       |
| 68  | Dalzell.....        | Bureau.....      | 2          | 1      | 685   | 316,788   |
| 69  | Danville.....       | Vermilion.....   | 5          | 26     | 647   | 520,364   |
| 70  | Dawson.....         | Sangamon.....    | 6          | 1      | 140   | 105,191   |
| 71  | Decatur.....        | Macon.....       | 5          | 3      | 460   | 189,443   |
| 72  | Desoto.....         | Jackson.....     | 10         | 4      | 127   | 29,499    |
| 73  | Dewmaine.....       | Williamson.....  | 12         | 2      | 800   | 712,524   |
| 74  | Divernon.....       | Sangamon.....    | 6          | 1      | 514   | 354,650   |
| 75  | Dubois.....         | Washington.....  | 10         | 1      | 59    | 17,280    |
| 76  | Dunfermline.....    | Fulton.....      | 4          | 1      | 258   | 190,460   |
| 77  | Duquoin.....        | Perry.....       | 10         | 9      | 1,257 | 733,239   |
| 78  | East St. Louis..... | St. Clair.....   | 9          | 2      | 982   | 693,414   |
| 79  | Edgemont.....       | do.....          | 9          | 1      | 4     | 622       |
| 80  | Edinburg.....       | Christian.....   | 5          | 1      | 13    | 5,688     |
| 81  | Edwards.....        | Peoria.....      | 3          | 9      | 140   | 68,272    |
| 82  | Edwardsville.....   | Madison.....     | 8          | 4      | 169   | 104,356   |
| 83  | Eldorado.....       | Saline.....      | 11         | 2      | 412   | 497,102   |

Table 21—Continued.

| No. | Location of mines. | County.         | Number of— |        |       |           |
|-----|--------------------|-----------------|------------|--------|-------|-----------|
|     |                    |                 | District.  | Mines. | Men.  | Tons.     |
| 84  | Ellisville.....    | Fulton.....     | 4          | 1      | 12    | 6,500     |
| 85  | Elmwood.....       | Peoria.....     | 3          | 1      | 8     | 3,200     |
| 86  | Equality.....      | Gallatin.....   | 11         | 10     | 158   | 71,032    |
| 87  | Fairbury.....      | Livingston..... | 1          | 2      | 66    | 43,707    |
| 88  | Fairmount.....     | Vermilion.....  | 5          | 3      | 78    | 42,650    |
| 89  | Fairview.....      | Fulton.....     | 4          | 9      | 45    | 19,441    |
| 90  | Fancy Prairie..... | Menard.....     | 3          | 1      | 8     | 6,510     |
| 91  | Farmersville.....  | Montgomery...   | 7          | 1      | 160   | 94,490    |
| 92  | Farmington.....    | Fulton.....     | 4          | 6      | 973   | 603,865   |
| 93  | Fiatt.....         | do.....         | 4          | 3      | 114   | 40,213    |
| 94  | Freeburg.....      | St. Clair.....  | 9          | 6      | 265   | 128,945   |
| 95  | Galatia.....       | Saline.....     | 11         | 1      | 48    | 20,000    |
| 96  | Galesburg.....     | Knox.....       | 2          | 3      | 29    | 10,821    |
| 97  | Galva.....         | Henry.....      | 2          | 1      | 4     | 880       |
| 98  | Geneseo.....       | do.....         | 2          | 1      | 6     | 1,160     |
| 99  | Georgetown.....    | Vermilion.....  | 5          | 1      | 26    | 17,715    |
| 100 | Gillespie.....     | Macoupin.....   | 7          | 3      | 1,716 | 2,303,531 |
| 101 | Girard.....        | do.....         | 7          | 1      | 320   | 263,512   |
| 102 | Glasford.....      | Peoria.....     | 3          | 6      | 16    | 5,200     |
| 103 | Glen Carbon.....   | Madison.....    | 8          | 2      | 538   | 377,917   |
| 104 | Golden Eagle.....  | Calhoun.....    | 7          | 1      | 10    | 1,660     |
| 105 | Granville.....     | Putnam.....     | 3          | 1      | 774   | 413,625   |
| 106 | Grape Creek.....   | Vermilion.....  | 5          | 3      | 15    | 6,450     |
| 107 | Greenfield.....    | Greene.....     | 7          | 1      | 11    | 5,400     |
| 108 | Greenridge.....    | Macoupin.....   | 7          | 1      | 274   | 226,500   |
| 109 | Greenview.....     | Menard.....     | 3          | 1      | 45    | 34,022    |
| 110 | Hallidayboro.....  | Jackson.....    | 10         | 1      | 246   | 173,242   |
| 111 | Hampton.....       | Rock Island...  | 2          | 2      | 8     | 603       |
| 112 | Hanaford.....      | Franklin.....   | 11         | 1      | 131   | 99,540    |
| 113 | Hanna City.....    | Peoria.....     | 3          | 4      | 98    | 52,823    |
| 114 | Harrisburg.....    | Saline.....     | 11         | 14     | 3,569 | 2,956,609 |
| 115 | Herrin.....        | Williamson..... | 12         | 15     | 3,617 | 2,864,456 |
| 116 | Hillsboro.....     | Montgomery...   | 7          | 3      | 936   | 845,097   |
| 117 | Industry.....      | McDonough...    | 4          | 3      | 17    | 3,332     |
| 118 | Ipava.....         | Fulton.....     | 4          | 6      | 15    | 2,025     |
| 119 | Johnston City..... | Williamson..... | 12         | 4      | 1,088 | 994,806   |
| 120 | Kangley.....       | LaSalle.....    | 1          | 1      | 2     | 250       |

Table 21—Continued.

| No. | Location of mines.   | County.           | Number of— |        |       |           |
|-----|----------------------|-------------------|------------|--------|-------|-----------|
|     |                      |                   | District.  | Mines. | Men.  | Tons.     |
| 121 | Kewance .....        | Henry .....       | 2          | 13     | 198   | 81,875    |
| 122 | Kingston Mines ..... | Peoria .....      | 3          | 3      | 179   | 130,943   |
| 123 | Knoxville .....      | Knox .....        | 2          | 2      | 8     | 1,760     |
| 124 | Ladd .....           | Bureau .....      | 2          | 1      | 570   | 238,549   |
| 125 | LaFayette .....      | Stark .....       | 2          | 2      | 10    | 3,216     |
| 126 | LaSalle .....        | LaSalle .....     | 1          | 7      | 1,785 | 776,016   |
| 127 | Laura .....          | Peoria .....      | 3          | 1      | 3     | 1,003     |
| 128 | Lebanon .....        | St. Clair .....   | 9          | 1      | 13    | 8,250     |
| 129 | Ledford .....        | Saline .....      | 11         | 3      | 636   | 604,040   |
| 130 | Lenzburg .....       | St. Clair .....   | 9          | 3      | 68    | 27,256    |
| 131 | Lewistown .....      | Fulton .....      | 4          | 15     | 47    | 9,480     |
| 132 | Lincoln .....        | Logan .....       | 6          | 3      | 643   | 414,557   |
| 133 | Litchfield .....     | Montgomery .....  | 7          | 1      | 75    | 44,050    |
| 134 | Livingston .....     | Madison .....     | 8          | 1      | 622   | 737,632   |
| 135 | Lovington .....      | Moultrie .....    | 5          | 1      | 68    | 54,162    |
| 136 | Macomb .....         | McDonough .....   | 4          | 7      | 19    | 1,930     |
| 137 | Maple Mills .....    | Fulton .....      | 4          | 4      | 10    | 1,910     |
| 138 | Mapleton .....       | Peoria .....      | 3          | 6      | 89    | 44,820    |
| 139 | Marietta .....       | Fulton .....      | 4          | 7      | 28    | 4,000     |
| 140 | Marion .....         | Williamson .....  | 12         | 9      | 1,436 | 1,105,465 |
| 141 | Marissa .....        | St. Clair .....   | 9          | 8      | 586   | 321,990   |
| 142 | Marseilles .....     | LaSalle .....     | 1          | 2      | 120   | 34,811    |
| 143 | Marquette .....      | Bureau .....      | 2          | 1      | 360   | 148,475   |
| 144 | Maryville .....      | Madison .....     | 8          | 1      | 450   | 380,904   |
| 145 | Mascoutah .....      | St. Clair .....   | 9          | 3      | 140   | 131,391   |
| 146 | Matherville .....    | Mercer .....      | 2          | 2      | 296   | 206,270   |
| 147 | Mathews .....        | Jackson .....     | 10         | 1      | 2     | 508       |
| 148 | Mayton .....         | Fulton .....      | 4          | 1      | 59    | 27,444    |
| 149 | Middle Grove .....   | Knox .....        | 2          | 2      | 8     | 3,200     |
| 150 | Millstadt .....      | St. Clair .....   | 9          | 3      | 20    | 15,056    |
| 151 | Mineral .....        | Bureau .....      | 2          | 1      | 8     | 4,800     |
| 152 | Minonk .....         | Woodford .....    | 3          | 1      | 157   | 61,344    |
| 153 | Mitchellville .....  | Saline .....      | 11         | 1      | 4     | 3,000     |
| 154 | Moline .....         | Rock Island ..... | 2          | 4      | 24    | 10,066    |
| 155 | Moumouth .....       | Warren .....      | 2          | 2      | 9     | 1,060     |
| 156 | Moro .....           | Madison .....     | 8          | 1      | 5     | 1,800     |
| 157 | Morris .....         | Grundy .....      | 1          | 7      | 51    | 13,782    |

Table 21—Continued.

| No. | Location of mines.   | County.         | Number of— |        |       |         |
|-----|----------------------|-----------------|------------|--------|-------|---------|
|     |                      |                 | District.  | Mines. | Men.  | Tons.   |
| 158 | Mt. Olive.....       | Macoupin.....   | 7          | 3      | 923   | 879,894 |
| 159 | Mt. Pulaski.....     | Logan.....      | 6          | 1      | 34    | 14,998  |
| 160 | Mt. Vernon.....      | Jefferson.....  | 10         | 1      | 45    | 7,958   |
| 161 | Moweaqua.....        | Shelby.....     | 5          | 1      | 104   | 53,426  |
| 162 | Muncie.....          | Vermilion.....  | 5          | 1      | 50    | 28,819  |
| 163 | Murphysboro.....     | Jackson.....    | 10         | 6      | 737   | 498,502 |
| 164 | Murrayville.....     | Morgan.....     | 4          | 1      | 8     | 1,085   |
| 165 | Nashville.....       | Washington..... | 10         | 1      | 68    | 17,842  |
| 166 | New Athens.....      | St. Clair.....  | 9          | 3      | 112   | 101,217 |
| 167 | New Baden.....       | Clinton.....    | 8          | 1      | 382   | 352,301 |
| 168 | New Burnside.....    | Johnson.....    | 12         | 3      | 19    | 3,871   |
| 169 | New Windsor.....     | Mercer.....     | 2          | 1      | 7     | 1,644   |
| 170 | Niantie.....         | Macon.....      | 5          | 1      | 61    | 39,742  |
| 171 | Nilwood.....         | Macoupin.....   | 7          | 1      | 142   | 30,850  |
| 172 | Nokomis.....         | Montgomery..... | 7          | 1      | 137   | 111,480 |
| 173 | Norris.....          | Fulton.....     | 4          | 4      | 501   | 323,585 |
| 174 | Norris City.....     | White.....      | 11         | 1      | 55    | 31,744  |
| 175 | Oak Hill.....        | Peoria.....     | 3          | 2      | 3     | 1,300   |
| 176 | Oakwood.....         | Vermilion.....  | 5          | 1      | 4     | 500     |
| 177 | Odin.....            | Marion.....     | 8          | 1      | 215   | 167,138 |
| 178 | O'Fallon.....        | St. Clair.....  | 9          | 5      | 693   | 436,384 |
| 179 | Oglesby.....         | LaSalle.....    | 1          | 1      | 443   | 205,737 |
| 180 | Oneida.....          | Knox.....       | 2          | 3      | 11    | 3,170   |
| 181 | Opdyke.....          | Jefferson.....  | 10         | 1      | 3     | 80      |
| 182 | Ottawa.....          | LaSalle.....    | 1          | 6      | 13    | 2,000   |
| 183 | Pana.....            | Christian.....  | 5          | 4      | 974   | 552,224 |
| 184 | Panama.....          | Montgomery..... | 7          | 1      | 426   | 407,025 |
| 185 | Pawnee.....          | Sangamon.....   | 6          | 1      | 461   | 382,588 |
| 186 | Perey.....           | Randolph.....   | 10         | 1      | 221   | 188,779 |
| 187 | Pekin.....           | Tazewell.....   | 3          | 3      | 230   | 167,136 |
| 188 | Peoria.....          | Peoria.....     | 3          | 27     | 1,154 | 869,527 |
| 189 | Peru.....            | LaSalle.....    | 1          | 2      | 333   | 124,855 |
| 190 | Petersburg.....      | Menard.....     | 3          | 4      | 104   | 54,409  |
| 191 | Pinckneyville.....   | Perry.....      | 10         | 5      | 330   | 118,534 |
| 192 | Pittsburg.....       | Williamson..... | 12         | 1      | 92    | 38,363  |
| 193 | Pleasant Plains..... | Sangamon.....   | 6          | 2      | 8     | 2,098   |
| 194 | Pocahontas.....      | Bond.....       | 8          | 1      | 186   | 131,527 |

Table 21—Continued.

| No. | Location of mines.    | County.          | Number of— |        |       |           |
|-----|-----------------------|------------------|------------|--------|-------|-----------|
|     |                       |                  | District.  | Mines. | Men.  | Tons.     |
| 195 | Pontiac.....          | Livingston.....  | 1          | 1      | 12    | 3,267     |
| 196 | Preemption.....       | Mercer.....      | 2          | 1      | 8     | 3,500     |
| 197 | Rapatee.....          | Knox.....        | 2          | 4      | 10    | 2,784     |
| 198 | Rend.....             | Franklin.....    | 11         | 1      | 295   | 267,441   |
| 199 | Rentchler.....        | St. Clair.....   | 9          | 2      | 125   | 75,343    |
| 200 | Ridgway.....          | Gallatin.....    | 11         | 1      | 3     | 550       |
| 201 | Riverton.....         | Sangamon.....    | 6          | 1      | 398   | 388,937   |
| 202 | Roanoke.....          | Woodford.....    | 3          | 1      | 266   | 122,552   |
| 203 | Rock Island.....      | Rock Island..... | 1          | 1      | 9     | 2,820     |
| 204 | Roseville.....        | Warren.....      | 2          | 2      | 5     | 528       |
| 205 | Royalton.....         | Franklin.....    | 11         | 2      | 443   | 270,714   |
| 206 | Rushville.....        | Schuyler.....    | 4          | 1      | 5     | 2,126     |
| 207 | Rutland.....          | LaSalle.....     | 1          | 1      | 103   | 40,666    |
| 208 | St. David.....        | Fulton.....      | 4          | 4      | 370   | 274,999   |
| 209 | St. John.....         | Perry.....       | 10         | 1      | 3     | 45        |
| 210 | St. Libori.....       | St. Clair.....   | 9          | 1      | 3     | 300       |
| 211 | Saline Mines.....     | Gallatin.....    | 11         | 1      | 4     | 1,000     |
| 212 | Salsbury.....         | Sangamon.....    | 6          | 1      | 5     | 1,191     |
| 213 | Sandoval.....         | Marion.....      | 8          | 2      | 338   | 244,895   |
| 214 | Seatonville.....      | Bureau.....      | 2          | 1      | 524   | 220,037   |
| 215 | Selbytown.....        | Sangamon.....    | 6          | 1      | 142   | 118,941   |
| 216 | Seneca.....           | LaSalle.....     | 1          | 1      | 33    | 1,938     |
| 217 | Sesser.....           | Franklin.....    | 11         | 1      | 343   | 424,449   |
| 218 | Shawneetown.....      | Gallatin.....    | 11         | 2      | 6     | 2,388     |
| 219 | Sheffield.....        | Bureau.....      | 2          | 3      | 32    | 11,901    |
| 220 | Shelbyville.....      | Shelby.....      | 5          | 6      | 64    | 13,709    |
| 221 | Sheldon Grove.....    | Schuyler.....    | 4          | 3      | 5     | 610       |
| 222 | Sherman.....          | Sangamon.....    | 6          | 1      | 414   | 265,683   |
| 223 | Sherrard.....         | Mercer.....      | 2          | 1      | 175   | 111,800   |
| 224 | Smithton.....         | St. Clair.....   | 9          | 1      | 4     | 2,800     |
| 225 | Sorento.....          | Bond.....        | 8          | 1      | 130   | 51,653    |
| 226 | South Wilmington..... | Grundy.....      | 1          | 2      | 694   | 337,800   |
| 227 | Sparland.....         | Marshall.....    | 3          | 11     | 164   | 68,515    |
| 228 | Sparta.....           | Randolph.....    | 10         | 7      | 480   | 355,099   |
| 229 | Spaulding.....        | Sangamon.....    | 6          | 1      | 131   | 37,488    |
| 230 | Springfield.....      | do.....          | 6          | 18     | 3,680 | 2,594,391 |
| 231 | Spring Valley.....    | Bureau.....      |            | 2      | 1,360 | 511,874   |

Table 21—Continued.

| No. | Location of mines.  | County.        | Number of— |        |       |           |
|-----|---------------------|----------------|------------|--------|-------|-----------|
|     |                     |                | District.  | Mines. | Men.  | Tons.     |
| 232 | Staunton.....       | Macoupin.....  | 7          | 4      | 1,592 | 1,439,560 |
| 233 | Steelton.....       | Vermilion..... | 5          | 2      | 627   | 503,758   |
| 234 | Stonefort.....      | Saline.....    | 11         | 3      | 4     | 774       |
| 235 | Stonington.....     | Christian..... | 5          | 1      | 226   | 175,516   |
| 236 | Streator.....       | LaSalle.....   | 1          | 17     | 842   | 435,929   |
| 237 | Sumner.....         | Fulton.....    | 4          | 2      | 7     | 1,300     |
| 238 | Sunfield.....       | Perry.....     | 10         | 2      | 65    | 26,646    |
| 239 | Swan Creek.....     | Warren.....    | 2          | 1      | 3     | 90        |
| 240 | Sweetwater.....     | Menard.....    | 3          | 1      | 7     | 4,300     |
| 241 | Table Grove.....    | Fulton.....    | 4          | 3      | 10    | 1,650     |
| 242 | Taft.....           | Putnam.....    | 3          | 1      | 580   | 302,906   |
| 243 | Tallula.....        | Menard.....    | 3          | 3      | 77    | 52,401    |
| 244 | Tamaroa.....        | Perry.....     | 10         | 1      | 98    | 22,780    |
| 245 | Taylorville.....    | Christian..... | 5          | 2      | 700   | 537,498   |
| 246 | Tennessee.....      | McDonough..... | 4          | 1      | 3     | 100       |
| 247 | Thayer.....         | Sangamon.....  | 6          | 1      | 525   | 486,140   |
| 248 | Tice.....           | Menard.....    | 3          | 1      | 5     | 225       |
| 249 | Tilden.....         | Randolph.....  | 10         | 2      | 209   | 59,602    |
| 250 | Tiskilwa.....       | Bureau.....    | 2          | 2      | 4     | 310       |
| 251 | Toluca.....         | Marshall.....  | 3          | 1      | 653   | 257,473   |
| 252 | Torino.....         | Will.....      | 1          | 1      | 250   | 102,662   |
| 253 | Toulon.....         | Stark.....     | 2          | 1      | 5     | 2,004     |
| 254 | Tower Hill.....     | Shelby.....    | 5          | 1      | 107   | 61,409    |
| 255 | Trenton.....        | Clinton.....   | 8          | 1      | 180   | 105,465   |
| 256 | Troy.....           | Madison.....   | 8          | 2      | 389   | 225,611   |
| 257 | Utica.....          | LaSalle.....   | 1          | 2      | 11    | 2,682     |
| 258 | Vergennes.....      | Jackson.....   | 10         | 1      | 6     | 8,300     |
| 259 | Vermont.....        | McDonough..... | 4          | 2      | 8     | 2,800     |
| 260 | Victoria.....       | Knox.....      | 2          | 5      | 18    | 4,953     |
| 261 | Viola.....          | Mercer.....    | 2          | 3      | 12    | 2,200     |
| 262 | Virden.....         | Macoupin.....  | 7          | 2      | 667   | 574,911   |
| 263 | Wataga.....         | Knox.....      | 2          | 4      | 23    | 7,149     |
| 264 | Wenona.....         | Marshall.....  | 3          | 1      | 250   | 121,106   |
| 265 | West Frankfort..... | Franklin.....  | 11         | 4      | 760   | 549,717   |
| 266 | Westville.....      | Vermilion..... | 5          | 6      | 2,387 | 2,129,241 |
| 267 | Wilderman.....      | St. Clair..... | 9          | 1      | 67    | 26,728    |
| 268 | Williamsfield.....  | Knox.....      | 2          | 1      | 4     | 480       |

Table 21—Concluded.

| No. | Location of mines. | County.       | Number of— |        |        |            |
|-----|--------------------|---------------|------------|--------|--------|------------|
|     |                    |               | District.  | Mines. | Men.   | Tons.      |
| 269 | Willisville.....   | Perry.....    | 10         | 3      | 378    | 352,199    |
| 270 | Winchester.....    | Scott.....    | 4          | 2      | 4      | 830        |
| 271 | Witt.....          | Montgomery... | 7          | 2      | 723    | 643,952    |
| 272 | Worden.....        | Madison.....  | 8          | 2      | 166    | 122,856    |
| 273 | Wyoming.....       | Stark.....    | 2          | 5      | 67     | 27,526     |
| 274 | Youngstown.....    | Warren.....   | 2          | 1      | 2      | 106        |
| 275 | Zeisler.....       | Franklin..... | 11         | 1      | 440    | 423,687    |
|     | Total.....         |               |            | 879    | 79,411 | 57,514,240 |

Table 22 gives by districts the total output of the shipping mines, the different grades into which it is usually divided and the number of tons in each grade.

TABLE 22—Total output of shipping and local mines of the State, with tons of the different grades of coal, by districts—1912.

| Districts.       | Total output—Tons. | Tons of the different grades of coal— |            |           |           |                    |                 |
|------------------|--------------------|---------------------------------------|------------|-----------|-----------|--------------------|-----------------|
|                  |                    | Mine run.                             | Lump.      | Egg.      | Nut.      | Pea or screenings. | Slack or waste. |
| First.....       | 2,351,330          | 447,687                               | 1,033,522  | 316,866   | 23,489    | 423,130            | 106,636         |
| Second.....      | 2,051,523          | 103,343                               | 1,396,702  | 174,276   | 9,626     | 318,086            | 49,488          |
| Third.....       | 2,767,346          | 375,244                               | 1,527,563  | 203,942   | 75,664    | 492,554            | 92,379          |
| Fourth.....      | 2,333,758          | 285,031                               | 755,099    | 610,141   | 50,333    | 590,782            | 42,772          |
| Fifth.....       | 5,002,440          | 1,817,457                             | 1,476,374  | 58,938    | 207,460   | 689,280            | 752,931         |
| Sixth.....       | 5,928,518          | 1,302,615                             | 2,167,105  | 767,803   | 283,301   | 1,237,594          | 170,100         |
| Seventh.....     | 7,170,963          | 1,648,236                             | 3,244,220  | 462,334   | 117,334   | 807,016            | 891,823         |
| Eighth.....      | 5,801,039          | 1,123,822                             | 2,482,809  | 403,147   | 324,598   | 1,198,505          | 268,158         |
| Ninth.....       | 4,409,341          | 602,208                               | 2,422,966  | 89,912    | 142,777   | 870,292            | 281,156         |
| Tenth.....       | 3,023,244          | 1,546,403                             | 721,285    | 115,288   | 101,183   | 473,100            | 66,085          |
| Eleventh.....    | 8,198,472          | 1,224,211                             | 2,818,444  | 936,806   | 701,202   | 2,366,533          | 151,276         |
| Twelfth.....     | 7,058,621          | 2,126,557                             | 1,209,533  | 771,111   | 1,141,029 | 1,622,076          | 188,315         |
| Shipping mines.. | 56,096,695         | 12,602,814                            | 21,255,652 | 4,910,566 | 3,177,996 | 11,088,548         | 3,061,119       |
| Local mines..... | 1,417,545          | 763,695                               | 539,875    | 29,865    | 15,960    | 20,643             | 47,507          |
| Total.....       | 57,514,240         | 13,366,509                            | 21,795,527 | 4,940,431 | 3,193,956 | 11,109,191         | 3,108,626       |



Table 23 shows the per cent of the total output of the shipping mines produced in each district. Also the per cent of each grade of coal is shown by districts.

TABLE 23—*Percentages of total output of the different grades of coal, shipping and local mines, by districts—1912.*

| Districts.       | Percentages of the different grades of coal |           |       |       |       |       |                 |
|------------------|---|-----------|-------|-------|-------|-------|-----------------|
|                  | Percent of total output.                    | Mine run. | Lump. | Egg.  | Nut.  | Pea.  | Slack or waste. |
| First.....       | 4.19  | 19.04     | 43.96 | 13.48 | 1.00  | 17.96 | 4.56            |
| Second.....      | 3.66  | 5.04      | 68.09 | 8.46  | 0.48  | 15.51 | 2.42            |
| Third.....       | 4.93  | 13.56     | 55.20 | 7.37  | 2.73  | 17.80 | 3.34            |
| Fourth.....      | 4.16  | 12.22     | 32.36 | 26.15 | 2.16  | 25.30 | 1.81            |
| Fifth.....       | 8.92  | 36.33     | 29.51 | 1.18  | 4.15  | 13.78 | 15.05           |
| Sixth.....       | 10.57                                       | 21.98     | 36.53 | 12.96 | 4.78  | 20.88 | 2.87            |
| Seventh.....     | 12.78                                       | 22.98     | 45.24 | 6.45  | 1.64  | 11.25 | 12.44           |
| Eighth.....      | 10.35                                       | 19.37     | 42.80 | 6.95  | 5.60  | 20.66 | 4.62            |
| Ninth.....       | 7.84  | 13.66     | 54.95 | 2.04  | 3.24  | 19.73 | 6.38            |
| Tenth.....       | 5.39  | 51.15     | 23.86 | 3.82  | 3.35  | 15.62 | 2.20            |
| Eleventh.....    | 14.62                                       | 14.93     | 34.38 | 11.43 | 8.54  | 28.87 | 1.85            |
| Twelfth.....     | 12.59                                       | 30.13     | 17.14 | 10.92 | 16.16 | 22.98 | 2.67            |
| Shipping mines.. | 100.00                                      | 22.47     | 37.89 | 8.76  | 5.67  | 19.77 | 5.44            |
| Local mines..... | 100.00                                      | 53.87     | 38.09 | 2.11  | 1.13  | 1.45  | 3.35            |

Table 24 gives the total output of all mines, the number of tons in each grade and the per cent the tonnage of each grade is of the total output for a period of thirteen years.

TABLE 24—*Total output of the different grades of coal, all mines, for thirteen years with percentages.*

| Year.        | Total output—Tons. | Tons of the different grades of coal. |            |           |           |            |                  |
|--------------|--------------------|---------------------------------------|------------|-----------|-----------|------------|------------------|
|              |                    | Mine run.                             | Lump.      | Egg.      | Nut.      | Pea.       | Slack. or waste. |
| 1900.....    | 25,153,929         | 5,554,417                             | 13,927,899 | 495,637   | 1,323,582 | 2,811,520  | 1,040,874        |
| 1901.....    | 26,635,319         | 6,882,740                             | 13,321,124 | 486,596   | 1,217,127 | 3,217,127  | 1,060,111        |
| 1902.....    | 30,021,300         | 6,986,204                             | 15,041,673 | 680,985   | 1,586,456 | 4,604,232  | 1,121,750        |
| 1903.....    | 34,955,400         | 10,373,097                            | 15,874,509 | 995,163   | 1,755,704 | 4,540,431  | 1,416,195        |
| 1904.....    | 37,077,897         | 10,627,904                            | 16,888,010 | 1,014,700 | 1,602,383 | 5,751,570  | 1,193,330        |
| 1905.....    | 37,183,374         | 9,248,558                             | 16,819,321 | 1,716,219 | 2,036,152 | 6,247,511  | 1,115,613        |
| 1906.....    | 38,317,581         | 9,777,905                             | 16,878,088 | 1,850,427 | 1,931,988 | 6,622,087  | 1,257,086        |
| 1907.....    | 47,798,621         | 11,628,302                            | 20,599,509 | 2,469,442 | 2,625,306 | 9,138,044  | 1,338,018        |
| 1908.....    | 49,272,452         | 11,221,540                            | 21,166,563 | 2,594,336 | 2,788,120 | 9,640,914  | 1,857,979        |
| 1909.....    | 49,163,710         | 8,715,759                             | 21,680,602 | 3,444,612 | 2,944,036 | 10,587,057 | 1,791,644        |
| 1910.....    | 48,717,853         | 10,220,456                            | 20,769,930 | 3,334,059 | 2,846,693 | 10,174,677 | 1,372,038        |
| 1911.....    | 50,165,099         | 13,025,663                            | 19,588,409 | 3,725,073 | 2,425,712 | 10,268,458 | 1,131,184        |
| 1912.....    | 57,514,240         | 13,366,509                            | 21,795,527 | 4,940,131 | 3,193,956 | 11,109,191 | 3,108,626        |
| Percentages— |                    |                                       |            |           |           |            |                  |
| 1900.....    |                    | 22.08                                 | 55.37      | 1.97      | 5.26      | 11.18      | 4.14             |
| 1901.....    |                    | 25.84                                 | 50.01      | 1.83      | 4.57      | 13.77      | 3.98             |
| 1902.....    |                    | 23.27                                 | 50.10      | 2.27      | 5.28      | 15.34      | 3.74             |
| 1903.....    |                    | 29.70                                 | 45.41      | 2.84      | 5.02      | 12.98      | 4.05             |
| 1904.....    |                    | 28.66                                 | 45.55      | 2.73      | 4.32      | 15.51      | 3.23             |
| 1905.....    |                    | 24.87                                 | 45.23      | 4.62      | 5.48      | 16.80      | 3.00             |
| 1906.....    |                    | 25.52                                 | 44.04      | 4.83      | 5.04      | 17.28      | 3.28             |
| 1907.....    |                    | 24.33                                 | 43.09      | 5.17      | 5.49      | 19.12      | 2.80             |
| 1908.....    |                    | 22.78                                 | 42.96      | 5.27      | 5.66      | 19.57      | 3.76             |
| 1909.....    |                    | 17.73                                 | 44.10      | 7.01      | 5.99      | 21.53      | 3.64             |
| 1910.....    |                    | 20.98                                 | 42.63      | 6.84      | 5.84      | 20.89      | 2.82             |
| 1911.....    |                    | 25.96                                 | 39.05      | 7.43      | 4.84      | 20.47      | 2.25             |
| 1912.....    |                    | 23.25                                 | 37.91      | 8.60      | 5.56      | 19.32      | 5.36             |

Table 25 shows for thirty-one years a condensed record of the coal-mining industry of the State each year of the series. The number of mines, number of men and the output in tons is shown, also the tonnage and percentages of each grade.

TABLE 25—*Output of the State for thirty-one years and the mines and men producing the same.*

| Year.     | Number of—     |        |        |            | Tons of—   |                  | Percentage of— |                  |
|-----------|----------------|--------|--------|------------|------------|------------------|----------------|------------------|
|           | Coun-<br>ties. | Mines. | Men.   | Tons.      | Lump.      | Other<br>grades. | Lump.          | Other<br>grades. |
| 1882..... | 42             | 704    | 20,290 | 11,017,653 | 9,115,653  | 1,901,506        | .....          | .....            |
| 1883..... | 47             | 639    | 23,939 | 12,123,456 | 10,030,991 | 2,092,565        | .....          | .....            |
| 1884..... | 49             | 741    | 25,575 | 12,208,075 | 10,101,005 | 2,107,070        | .....          | .....            |
| 1885..... | 50             | 778    | 25,946 | 11,834,459 | 9,791,874  | 2,402,585        | .....          | .....            |
| 1886..... | 50             | 787    | 25,846 | 11,175,241 | 9,246,435  | 1,928,806        | .....          | .....            |
| 1887..... | 49             | 801    | 26,804 | 12,423,066 | 10,278,890 | 2,144,176        | .....          | .....            |
| 1888..... | 50             | 822    | 29,410 | 14,328,181 | 11,855,188 | 2,472,993        | .....          | .....            |
| 1889..... | 49             | 854    | 30,076 | 14,017,298 | 11,597,963 | 2,419,335        | .....          | .....            |
| 1890..... | 57             | 936    | 28,574 | 15,274,727 | 12,638,364 | 2,636,363        | 82.74          | 17.26            |
| 1891..... | 57             | 918    | 32,951 | 15,660,698 | 12,960,224 | 2,700,474        | 82.76          | 17.24            |
| 1892..... | 55             | 839    | 33,632 | 17,862,276 | 14,730,963 | 3,131,313        | 82.47          | 17.53            |
| 1893..... | 56             | 788    | 35,390 | 19,949,464 | 16,112,899 | 3,836,665        | 80.77          | 19.23            |
| 1894..... | 56             | 836    | 38,477 | 17,113,576 | 13,865,284 | 3,248,292        | 81.02          | 18.98            |
| 1895..... | 54             | 874    | 38,630 | 17,735,864 | 14,045,962 | 3,689,902        | 79.25          | 20.75            |
| 1896..... | 51             | 901    | 37,057 | 19,786,626 | 14,210,024 | 5,576,602        | 71.86          | 28.14            |
| 1897..... | 50             | 853    | 33,788 | 20,072,758 | 14,672,241 | 5,400,517        | 73.10          | 26.90            |
| 1898..... | 52             | 881    | 35,026 | 18,599,299 | 14,208,795 | 4,390,504        | 76.39          | 23.61            |
| 1899..... | 52             | 889    | 36,991 | 23,434,454 | 17,427,598 | 6,006,847        | 74.37          | 25.63            |
| 1900..... | 52             | 920    | 39,384 | 25,153,929 | 12,927,899 | 11,226,030       | 44.63          | 55.37            |
| 1901..... | 53             | 915    | 44,143 | 26,635,319 | 13,321,124 | 13,314,195       | 50.01          | 49.99            |
| 1902..... | 54             | 915    | 46,005 | 30,021,300 | 15,041,673 | 14,979,627       | 50.10          | 49.90            |
| 1903..... | 53             | 933    | 49,814 | 34,955,400 | 15,874,509 | 19,080,891       | 45.41          | 54.59            |
| 1904..... | 54             | 932    | 54,774 | 37,077,897 | 16,888,010 | 20,189,887       | 45.55          | 54.45            |
| 1905..... | 56             | 990    | 59,230 | 37,183,374 | 16,819,321 | 20,364,053       | 45.23          | 54.77            |
| 1906..... | 54             | 1,018  | 62,283 | 38,317,581 | 16,878,088 | 21,439,493       | 44.05          | 55.95            |
| 1907..... | 55             | 933    | 66,714 | 47,798,621 | 20,599,509 | 27,199,112       | 43.10          | 56.90            |
| 1908..... | 54             | 922    | 70,841 | 49,272,452 | 21,166,563 | 28,105,889       | 42.96          | 57.04            |
| 1909..... | 55             | 886    | 72,733 | 49,163,710 | 21,680,602 | 27,483,108       | 44.10          | 55.90            |
| 1910..... | 55             | 881    | 74,634 | 48,717,853 | 20,769,930 | 27,947,923       | 42.63          | 57.37            |
| 1911..... | 53             | 845    | 77,410 | 50,165,099 | 19,588,409 | 30,576,690       | 39.05          | 60.95            |
| 1912..... | 52             | 879    | 79,411 | 57,514,240 | 21,795,527 | 35,718,713       | 37.90          | 62.10            |

Table 26 shows the number of men employed at the mines, the total output in tons, and the per cent of gain or loss from year to year for thirty-one years.

TABLE 26—*Total number of men and total tons produced, with percentages of gain or loss, for thirty-one years.*

| Year.     | Men.   | Total output—tons. | Percentage of men. |       | Percentage of tons. |       |
|-----------|--------|--------------------|--------------------|-------|---------------------|-------|
|           |        |                    | Gain.              | Loss. | Gain.               | Loss. |
| 1882..... | 20,290 | 11,017,069         | .....              | ..... | .....               | ..... |
| 1883..... | 23,939 | 12,132,451         | 17.98              | ..... | 10.04               | ..... |
| 1884..... | 25,575 | 12,208,075         | 6.83               | ..... | .70                 | ..... |
| 1885..... | 25,946 | 11,834,459         | 1.45               | ..... | .....               | 3.06  |
| 1886..... | 15,846 | 11,175,241         | .....              | .32   | .....               | 5.57  |
| 1887..... | 26,804 | 12,423,066         | 3.71               | ..... | 11.17               | ..... |
| 1888..... | 29,410 | 14,328,181         | 9.72               | ..... | 15.34               | ..... |
| 1889..... | 30,076 | 14,017,298         | 2.26               | ..... | .....               | 2.17  |
| 1890..... | 28,574 | 15,274,727         | .....              | 5.00  | 8.97                | ..... |
| 1891..... | 32,954 | 15,660,698         | 15.31              | ..... | 3.53                | ..... |
| 1892..... | 33,632 | 17,862,276         | 2.07               | ..... | 14.06               | ..... |
| 1893..... | 35,390 | 19,949,564         | 5.23               | ..... | 11.69               | ..... |
| 1894..... | 38,477 | 17,113,576         | 8.72               | ..... | .....               | 14.22 |
| 1895..... | 38,630 | 17,735,864         | .40                | ..... | 3.64                | ..... |
| 1896..... | 37,057 | 19,786,626         | .....              | 4.07  | 11.56               | ..... |
| 1897..... | 33,788 | 20,072,758         | .....              | 8.82  | 1.45                | ..... |
| 1898..... | 35,026 | 18,599,299         | 3.66               | ..... | .....               | 7.34  |
| 1899..... | 36,991 | 23,434,445         | 5.61               | ..... | 26.00               | ..... |
| 1900..... | 39,381 | 25,153,929         | 6.47               | ..... | 7.34                | ..... |
| 1901..... | 44,143 | 26,635,319         | 12.08              | ..... | 5.89                | ..... |
| 1902..... | 46,005 | 30,021,300         | 4.21               | ..... | 12.71               | ..... |
| 1903..... | 49,814 | 34,955,400         | 8.28               | ..... | 16.44               | ..... |
| 1904..... | 54,774 | 37,077,897         | 9.96               | ..... | 6.07                | ..... |
| 1905..... | 59,230 | 37,183,374         | 8.14               | ..... | .28                 | ..... |
| 1906..... | 62,283 | 38,317,581         | 5.15               | ..... | 3.05                | ..... |
| 1907..... | 66,714 | 47,798,621         | 7.11               | ..... | 24.74               | ..... |
| 1908..... | 70,841 | 49,272,452         | 6.19               | ..... | 3.08                | ..... |
| 1909..... | 72,733 | 49,163,710         | 2.67               | ..... | .....               | .22   |
| 1910..... | 74,634 | 48,717,853         | 2.61               | ..... | .....               | .91   |
| 1911..... | 77,410 | 50,165,099         | 3.72               | ..... | 2.97                | ..... |
| 1912..... | 79,411 | 57,514,240         | 2.58               | ..... | 14.65               | ..... |



Table 27 gives the production of the shipping mines in each county  
will be found the output each

TABLE 27.—*Total output of shipping mines produced in each calendar*

| Counties and districts. | Total<br>tons. | 1911—Output for the months of— |         |                 |          |                |                |
|-------------------------|----------------|--------------------------------|---------|-----------------|----------|----------------|----------------|
|                         |                | July.                          | August. | Sep-<br>tember. | October. | No-<br>vember. | De-<br>cember. |
| Grundy.....             | 742,606        | 56,808                         | 60,627  | 64,473          | 81,714   | 85,463         | 81,221         |
| LaSalle.....            | 1,404,599      | 92,701                         | 102,128 | 121,423         | 142,717  | 148,372        | 142,596        |
| Livingston.....         | 29,682         | 2,366                          | 2,370   | 2,152           | 2,927    | 3,081          | 3,581          |
| Will.....               | 174,443        | 12,514                         | 12,939  | 12,225          | 10,071   | 18,684         | 19,238         |
| First District.....     | 2,351,330      | 164,389                        | 178,064 | 200,273         | 237,429  | 255,600        | 246,636        |
| Bureau.....             | 1,664,092      | 110,086                        | 124,345 | 146,099         | 159,404  | 166,442        | 170,209        |
| Henry.....              | 42,995         | 3,562                          | 3,426   | 2,899           | 3,802    | 4,800          | 4,714          |
| Mercer.....             | 318,070        | 11,496                         | 18,410  | 26,025          | 27,647   | 36,594         | 43,952         |
| Rock Island.....        | 13,040         | 640                            | 700     | 550             | 1,400    | 1,350          | 1,200          |
| Stark.....              | 13,326         | 208                            | 238     | 420             | 1,156    | 1,349          | 1,140          |
| Second District.....    | 2,051,523      | 125,992                        | 147,119 | 175,993         | 193,409  | 210,535        | 221,215        |
| Marshall.....           | 441,731        | 35,254                         | 38,338  | 39,629          | 43,407   | 45,740         | 44,165         |
| Menard.....             | 189,235        | 12,730                         | 14,975  | 13,560          | 19,032   | 17,837         | 16,481         |
| Peoria.....             | 1,026,151      | 66,120                         | 69,707  | 79,996          | 96,482   | 103,936        | 107,607        |
| Putnam.....             | 716,531        | 53,996                         | 60,882  | 65,946          | 72,342   | 72,273         | 70,235         |
| Tazewell.....           | 209,802        | 10,402                         | 13,856  | 14,031          | 18,044   | 20,448         | 20,971         |
| Woodford.....           | 183,896        | 12,339                         | 12,435  | 13,099          | 18,106   | 17,512         | 18,229         |
| Third District.....     | 2,767,346      | 190,841                        | 210,193 | 226,261         | 267,413  | 277,746        | 277,688        |
| Fulton.....             | 2,333,758      | 144,094                        | 172,805 | 189,284         | 259,690  | 243,870        | 230,162        |
| Fourth District.....    | 2,333,758      | 144,094                        | 172,805 | 189,284         | 259,690  | 243,870        | 230,162        |
| Christian.....          | 1,340,593      | 73,481                         | 91,052  | 95,390          | 113,249  | 133,927        | 151,064        |
| Macon.....              | 271,626        | 11,423                         | 20,012  | 15,244          | 29,081   | 30,613         | 21,944         |
| Moultrie.....           | 54,162         | 2,884                          | 3,102   | 3,700           | 3,747    | 4,872          | 6,935          |
| Shelby.....             | 114,835        | 3,383                          | 4,784   | 7,660           | 17,034   | 17,259         | 16,668         |
| Vermilion.....          | 3,221,314      | 244,714                        | 268,052 | 272,083         | 297,817  | 300,378        | 302,534        |
| Fifth District.....     | 5,002,440      | 335,882                        | 387,002 | 394,077         | 469,928  | 487,059        | 499,165        |
| Logan.....              | 429,555        | 21,201                         | 40,650  | 31,105          | 41,454   | 45,569         | 36,033         |
| McLean.....             | 96,898         | 5,039                          | 7,823   | 8,047           | 10,587   | 11,495         | 11,086         |
| Sangamon.....           | 5,402,065      | 321,110                        | 394,538 | 396,512         | 498,719  | 581,211        | 597,044        |
| Sixth District.....     | 5,928,518      | 347,350                        | 443,020 | 435,664         | 559,760  | 638,275        | 644,163        |

and district for each month of the fiscal year. At the bottom of table month for the last seven years.

*month, by counties and districts, from July 1, 1911, to June 30, 1912.*

| 1912—Output for the months of— |           |         |        |         |         | Counties and districts. |
|--------------------------------|-----------|---------|--------|---------|---------|-------------------------|
| January                        | February. | March.  | April. | May.    | June.   |                         |
| 88,039                         | 89,939    | 91,499  | .....  | 23,897  | 18,926  | Grundy.....             |
| 154,966                        | 158,485   | 166,014 | 7,865  | 81,689  | 85,643  | LaSalle.....            |
| 3,364                          | 3,267     | 4,226   | .....  | 724     | 1,624   | Livingston.....         |
| 21,156                         | 21,156    | 20,429  | 444    | 15,080  | 10,507  | Will.....               |
| 267,525                        | 272,847   | 282,168 | 8,309  | 121,390 | 116,700 | First District.....     |
| 189,911                        | 195,028   | 200,369 | 504    | 91,818  | 106,877 | Bureau.....             |
| 6,525                          | 6,429     | 6,838   | .....  | .....   | .....   | Henry.....              |
| 41,173                         | 43,560    | 45,945  | 121    | 320     | 22,827  | Mercer.....             |
| 1,580                          | 1,180     | 1,800   | .....  | 1,240   | 1,400   | Rock Island.....        |
| 1,899                          | 1,922     | 2,218   | 870    | 1,056   | 750     | Stark.....              |
| 241,088                        | 248,119   | 257,270 | 1,495  | 97,434  | 131,854 | Second District.....    |
| 45,683                         | 46,235    | 50,464  | 161    | 24,456  | 28,199  | Marshall.....           |
| 28,542                         | 26,320    | 31,421  | 1,180  | 2,911   | 4,246   | Menard.....             |
| 115,323                        | 118,286   | 134,885 | 7,118  | 69,565  | 57,132  | Peoria.....             |
| 63,272                         | 73,382    | 74,017  | .....  | 47,879  | 62,307  | Putnam.....             |
| 24,605                         | 28,683    | 30,531  | 103    | 12,909  | 15,219  | Tazewell.....           |
| 22,097                         | 22,297    | 23,288  | 198    | 13,567  | 10,729  | Woodford.....           |
| 299,522                        | 315,197   | 344,606 | 8,760  | 171,287 | 177,832 | Third District.....     |
| 279,278                        | 251,390   | 324,126 | .....  | 198,918 | 130,141 | Fulton.....             |
| 279,278                        | 251,390   | 324,126 | .....  | 108,918 | 130,141 | Fourth District.....    |
| 158,932                        | 172,275   | 218,097 | .....  | 69,454  | 72,572  | Christian.....          |
| 47,888                         | 47,571    | 47,850  | .....  | .....   | .....   | Macon.....              |
| 6,911                          | 8,547     | 10,884  | .....  | .....   | 2,560   | Moultrie.....           |
| 17,780                         | 12,362    | 17,905  | .....  | .....   | .....   | Shelby.....             |
| 325,130                        | 323,874   | 361,869 | 8,513  | 266,756 | 249,597 | Vermilion.....          |
| 556,641                        | 564,629   | 656,605 | 8,513  | 327,210 | 324,729 | Fifth District.....     |
| 54,694                         | 57,399    | 71,761  | .....  | 18,413  | 11,267  | Logan.....              |
| 14,692                         | 13,320    | 12,924  | 968    | 455     | 462     | McLean.....             |
| 601,698                        | 680,317   | 832,873 | 1,213  | 260,493 | 236,337 | Sangamon.....           |
| 671,084                        | 751,036   | 917,558 | 2,181  | 279,361 | 248,066 | Sixth District.....     |

Table 27—

| Counties and districts. | Total tons. | 1911—Output for the months of— |           |            |           |           |           |
|-------------------------|-------------|--------------------------------|-----------|------------|-----------|-----------|-----------|
|                         |             | July.                          | August.   | September. | October.  | November. | December. |
| Macoupin.....           | 4,890,622   | 361,665                        | 435,733   | 414,698    | 478,786   | 473,376   | 501,082   |
| Montgomery.....         | 2,280,341   | 158,744                        | 197,298   | 183,287    | 245,482   | 265,110   | 251,399   |
| Seventh District.....   | 7,170,963   | 520,409                        | 633,031   | 597,985    | 724,268   | 738,486   | 752,481   |
| Bond.....               | 183,180     | 11,100                         | 15,831    | 12,080     | 14,356    | 18,135    | 19,769    |
| Clinton.....            | 1,012,982   | 56,451                         | 94,129    | 90,253     | 97,708    | 98,828    | 108,768   |
| Madison.....            | 3,400,930   | 214,974                        | 226,448   | 227,290    | 328,915   | 321,405   | 325,440   |
| Marion.....             | 1,203,947   | 101,476                        | 101,175   | 91,819     | 104,460   | 108,460   | 114,209   |
| Eighth District.....    | 5,801,039   | 282,001                        | 427,583   | 421,442    | 545,439   | 546,828   | 568,186   |
| St. Clair.....          | 4,409,311   | 237,039                        | 313,829   | 294,254    | 371,410   | 440,005   | 422,408   |
| Ninth District.....     | 4,409,341   | 237,039                        | 313,829   | 294,254    | 371,410   | 440,005   | 422,408   |
| Jackson.....            | 687,857     | 54,677                         | 68,279    | 71,288     | 62,092    | 64,143    | 64,253    |
| Jefferson.....          | 7,958       |                                |           |            |           |           | 997       |
| Perry.....              | 1,394,940   | 90,718                         | 131,884   | 126,630    | 114,856   | 128,769   | 154,027   |
| Randolph.....           | 744,506     | 49,422                         | 59,016    | 62,048     | 62,356    | 78,765    | 69,214    |
| Washington.....         | 188,083     | 500                            | 1,000     | 1,000      | 1,000     | 6,508     | 34,670    |
| Tenth District.....     | 3,023,344   | 195,317                        | 260,179   | 261,046    | 240,304   | 278,185   | 323,161   |
| Franklin.....           | 4,026,815   | 311,623                        | 380,724   | 375,518    | 428,702   | 406,665   | 405,709   |
| Gallatin.....           | 63,127      | 3,554                          | 5,318     | 5,366      | 7,658     | 8,138     | 5,459     |
| Saline.....             | 4,076,756   | 251,486                        | 266,639   | 359,013    | 339,406   | 409,821   | 434,500   |
| White.....              | 31,774      | 2,649                          | 3,379     | 3,412      | 3,945     | 3,889     | 2,449     |
| Eleventh District.....  | 8,198,472   | 569,312                        | 656,060   | 743,309    | 779,711   | 828,513   | 848,117   |
| Williamson.....         | 7,058,621   | 474,484                        | 610,568   | 643,173    | 661,797   | 754,815   | 776,282   |
| Twelfth District.....   | 7,058,621   | 474,484                        | 610,568   | 643,173    | 661,797   | 754,815   | 776,282   |
| The State, 1912.....    | 56,096,695  | 3,688,110                      | 4,449,453 | 4,582,761  | 4,292,558 | 5,699,917 | 5,809,664 |
| The State, 1911.....    | 48,758,657  | 4,769,521                      | 2,413,674 | 3,580,137  | 5,451,241 | 5,876,969 | 5,768,701 |
| The State, 1910.....    | 47,225,201  | 3,304,331                      | 3,739,383 | 4,412,749  | 5,235,286 | 5,219,082 | 5,212,614 |
| The State, 1909.....    | 47,958,562  | 2,978,427                      | 3,809,419 | 4,298,981  | 5,019,764 | 4,523,011 | 4,748,402 |
| The State, 1908.....    | 47,809,730  | 3,544,763                      | 4,112,544 | 4,222,617  | 5,279,014 | 5,097,806 | 4,837,077 |
| The State, 1907.....    | 46,436,839  | 2,884,210                      | 3,244,518 | 3,478,829  | 4,282,628 | 4,342,762 | 4,613,382 |
| The State, 1906.....    | 37,096,945  | 1,891,717                      | 2,840,419 | 3,117,045  | 3,578,312 | 3,880,503 | 4,178,029 |



Concluded.

| 1912—Output for the months of— |           |           |           |           |           | Counties and districts. |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|-------------------------|
| January.                       | February. | March.    | April.    | May.      | June.     |                         |
| 496,937                        | 510,397   | 637,917   | .....     | 242,231   | 337,798   | Macoupin.....           |
| 226,078                        | 238,752   | 305,794   | .....     | 92,074    | 116,323   | Montgomery.....         |
| 723,015                        | 749,149   | 943,711   | .....     | 334,395   | 454,121   | Seventh District.....   |
| 24,757                         | 28,174    | 32,449    | .....     | .....     | 6,529     | Bond.....               |
| 112,037                        | 116,496   | 137,329   | .....     | 50,712    | 50,271    | Clinton.....            |
| 414,941                        | 442,392   | 545,522   | .....     | 138,775   | 214,828   | Madison.....            |
| 103,746                        | 110,238   | 143,721   | 696       | 108,206   | 115,741   | Marion.....             |
| 655,481                        | 697,360   | 859,021   | 696       | 297,693   | 387,369   | Eighth District.....    |
| 517,415                        | 566,054   | 720,726   | 5,601     | 259,661   | 260,939   | St. Clair.....          |
| 517,415                        | 566,054   | 720,726   | 5,601     | 259,661   | 260,939   | Ninth District.....     |
| 56,042                         | 68,198    | 88,933    | 840       | 43,017    | 46,095    | Jackson.....            |
| 1,234                          | 1,513     | 1,363     | 269       | 1,516     | 1,066     | Jefferson.....          |
| 126,739                        | 146,379   | 188,352   | 2,197     | 79,585    | 104,804   | Perry.....              |
| 67,883                         | 80,479    | 140,682   | 887       | 29,921    | 43,833    | Randolph.....           |
| 26,332                         | 35,246    | 54,279    | 1,820     | 21,288    | 4,360     | Washington.....         |
| 278,230                        | 331,815   | 473,609   | 6,013     | 175,327   | 200,158   | Tenth District.....     |
| 378,172                        | 382,165   | 513,196   | 25        | 175,363   | 268,953   | Franklin.....           |
| 6,090                          | 8,550     | 10,823    | .....     | 1,207     | 964       | Gallatin.....           |
| 442,381                        | 544,918   | 560,668   | .....     | 215,155   | 252,769   | Saline.....             |
| 3,054                          | 3,598     | 4,896     | .....     | 60        | 443       | White.....              |
| 829,697                        | 939,231   | 1,089,583 | 25        | 391,785   | 523,129   | Eleventh District.....  |
| 685,661                        | 748,517   | 967,407   | .....     | 325,495   | 410,422   | Williamson.....         |
| 685,661                        | 748,517   | 967,407   | .....     | 325,495   | 410,422   | Twelfth District.....   |
| 6,004,637                      | 6,435,284 | 7,836,392 | 42,593    | 2,889,866 | 3,365,460 | The State, 1912.....    |
| 5,088,023                      | 3,957,373 | 4,209,260 | 3,671,457 | 3,548,713 | 3,473,588 | The State, 1911.....    |
| 5,722,496                      | 5,551,940 | 7,026,402 | 23,966    | 169,662   | 1,637,199 | The State, 1910.....    |
| 4,641,015                      | 4,107,510 | 4,148,613 | 3,470,361 | 3,145,748 | 3,067,311 | The State, 1909.....    |
| 4,408,282                      | 4,566,526 | 6,055,194 | 1,400,640 | 2,081,852 | 3,463,414 | The State, 1908.....    |
| 4,852,163                      | 4,254,985 | 3,731,138 | 3,572,474 | 3,784,770 | 3,393,880 | The State, 1907.....    |
| 4,288,706                      | 4,336,350 | 5,378,459 | 392,382   | 659,019   | 2,556,094 | The State, 1906.....    |

Table 28 is a recapitulation of Table 27 and shows the tonnage by

TABLE 28—*Recapitulation of Table 27—Total output of shipping  
1911, to June*

| Districts.        | Total tons. | July.     | August.   | September. | October.  | November. | De-<br>cember. |
|-------------------|-------------|-----------|-----------|------------|-----------|-----------|----------------|
| First.....        | 2,351,330   | 164,389   | 178,064   | 200,273    | 237,429   | 255,600   | 246,636        |
| Second.....       | 2,051,523   | 125,992   | 147,119   | 175,993    | 193,409   | 210,535   | 221,215        |
| Third.....        | 2,767,346   | 190,841   | 210,193   | 226,261    | 267,413   | 277,746   | 277,688        |
| Fourth.....       | 2,333,758   | 144,094   | 172,805   | 189,284    | 259,690   | 243,870   | 230,162        |
| Fifth.....        | 5,002,440   | 335,882   | 387,002   | 394,077    | 460,928   | 487,059   | 499,165        |
| Sixth.....        | 5,928,518   | 347,350   | 443,020   | 435,664    | 550,760   | 638,275   | 644,163        |
| Seventh.....      | 7,170,963   | 520,409   | 633,031   | 597,985    | 724,268   | 738,486   | 752,481        |
| Eighth.....       | 5,801,039   | 383,001   | 437,583   | 421,442    | 545,439   | 546,828   | 568,186        |
| Ninth.....        | 4,409,341   | 237,039   | 313,829   | 294,254    | 371,410   | 440,005   | 422,408        |
| Tenth.....        | 3,023,344   | 195,317   | 260,179   | 261,046    | 240,304   | 278,185   | 323,161        |
| Eleventh.....     | 8,198,472   | 569,312   | 656,060   | 743,309    | 779,711   | 828,513   | 848,117        |
| Twelfth.....      | 7,058,621   | 474,484   | 610,568   | 643,173    | 661,797   | 754,815   | 776,282        |
| The State, 1912.. | 56,096,695  | 3,688,110 | 4,449,453 | 4,582,761  | 4,292,558 | 5,699,917 | 5,809,664      |
| The State, 1911.. | 48,758,657  | 1,769,521 | 2,413,674 | 3,580,137  | 5,451,241 | 5,876,969 | 5,768,701      |
| The State, 1910.. | 47,225,201  | 3,304,331 | 3,739,383 | 4,412,740  | 5,235,286 | 5,219,082 | 5,242,614      |
| The State, 1909.. | 47,958,562  | 2,978,427 | 3,809,419 | 4,298,981  | 5,019,764 | 4,523,011 | 4,748,402      |
| The State, 1908.. | 47,809,730  | 3,544,763 | 4,112,544 | 4,222,617  | 5,279,014 | 5,097,806 | 4,837,077      |
| The State, 1907.. | 46,436,839  | 2,884,310 | 3,244,518 | 3,478,829  | 4,282,628 | 4,343,762 | 4,613,382      |
| The State, 1906.. | 37,096,945  | 1,891,717 | 2,840,419 | 3,117,045  | 3,578,312 | 3,880,503 | 4,178,029      |

districts each month of the year and for the six previous years.

*mines produced in each calendar month, by districts, from July 1, 30, 1912.*

| January.  | February. | March.    | April.    | May.      | June.     | Districts.           |
|-----------|-----------|-----------|-----------|-----------|-----------|----------------------|
| 267,525   | 272,847   | 282,168   | 8,309     | 121,390   | 116,700   | First.....           |
| 241,088   | 248,119   | 257,270   | 1,495     | 97,434    | 131,854   | Second.....          |
| 299,522   | 315,197   | 344,606   | 8,760     | 171,287   | 177,832   | Third.....           |
| 279,278   | 251,390   | 324,126   | .....     | 108,918   | 130,141   | Fourth.....          |
| 556,641   | 564,629   | 656,605   | 8,513     | 327,210   | 324,729   | Fifth.....           |
| 671,084   | 751,036   | 917,558   | 2,181     | 279,361   | 248,066   | Sixth.....           |
| 723,015   | 749,149   | 943,713   | .....     | 334,305   | 454,121   | Seventh.....         |
| 655,481   | 697,300   | 859,021   | 696       | 297,693   | 387,369   | Eighth.....          |
| 517,415   | 566,054   | 720,726   | 5,601     | 259,661   | 260,939   | Ninth.....           |
| 278,230   | 331,815   | 473,609   | 6,013     | 175,327   | 200,158   | Tenth.....           |
| 829,697   | 939,231   | 1,089,583 | 25        | 391,785   | 523,129   | Eleventh.....        |
| 685,661   | 748,517   | 967,407   | .....     | 325,495   | 410,422   | Twelfth.....         |
| 6,004,637 | 6,435,284 | 7,836,392 | 42,593    | 2,889,866 | 3,365,460 | The State, 1912..... |
| 5,038,023 | 3,957,373 | 4,209,260 | 3,671,457 | 3,548,713 | 3,473,588 | The State, 1911..... |
| 5,722,496 | 5,551,940 | 7,026,402 | 23,966    | 109,662   | 1,637,199 | The State, 1910..... |
| 4,641,015 | 4,107,510 | 4,148,613 | 3,470,361 | 3,145,748 | 3,067,311 | The State, 1909..... |
| 4,408,282 | 4,566,526 | 6,055,194 | 1,400,640 | 2,081,853 | 3,463,414 | The State, 1908..... |
| 4,852,163 | 4,254,985 | 3,731,138 | 3,572,474 | 3,784,770 | 3,393,880 | The State, 1907..... |
| 4,288,706 | 4,336,350 | 5,378,459 | 392,382   | 659,019   | 2,556,094 | The State, 1906..... |

Table 29 gives the percentages of the output produced each month by districts and for the six prior years.

TABLE 29—*Percentages of the total output mined in each month by districts.*

| Districts.           | Percentages of total output mined in each district during the months of— |         |            |          |           |           |          |           |        |        |      |       |
|----------------------|--|---------|------------|----------|-----------|-----------|----------|-----------|--------|--------|------|-------|
|                      | 1911.  |         |            |          |           |           | 1912.    |           |        |        |      |       |
|                      | July.  | August. | September. | October. | November. | December. | January. | February. | March. | April. | May. | June. |
| First.....           | 6.97   | 7.57    | 8.51       | 10.52    | 10.87     | 11.49     | 11.37    | 11.14     | 11.11  | 0.35   | 5.16 | 4.94  |
| Second.....          | 6.14   | 7.17    | 8.58       | 9.43     | 10.26     | 11.78     | 11.26    | 12.09     | 12.04  | 0.07   | 4.75 | 6.45  |
| Third.....           | 6.90   | 7.60    | 8.18       | 9.74     | 10.03     | 10.04     | 10.82    | 11.39     | 12.45  | 0.32   | 6.19 | 6.34  |
| Fourth.....          | 6.17   | 7.40    | 8.11       | 11.13    | 10.45     | 9.86      | 11.97    | 19.77     | 13.89  | .....  | 4.67 | 5.58  |
| Fifth.....           | 6.71   | 7.74    | 7.89       | 9.21     | 9.74      | 9.98      | 11.12    | 11.29     | 13.12  | 0.17   | 6.54 | 6.49  |
| Sixth.....           | 9.75   | 10.86   | 12.32      | 12.67    | 5.86      | 7.48      | 7.35     | 9.29      | 15.48  | 0.03   | 4.72 | 4.19  |
| Seventh.....         | 7.26   | 8.83    | 8.34       | 10.11    | 10.30     | 10.49     | 10.09    | 10.45     | 13.17  | .....  | 4.62 | 6.34  |
| Eighth.....          | 6.60   | 7.55    | 7.27       | 9.41     | 9.43      | 9.79      | 11.30    | 12.00     | 14.81  | 0.01   | 5.14 | 6.69  |
| Ninth.....           | 9.98   | 9.58    | 11.73      | 12.84    | 5.38      | 7.12      | 6.67     | 8.42      | 16.35  | 0.12   | 5.89 | 5.92  |
| Tenth.....           | 6.46   | 8.60    | 8.63       | 7.95     | 9.20      | 10.69     | 9.20     | 10.98     | 15.67  | 0.20   | 5.80 | 6.62  |
| Eleventh.....        | 6.95   | 8.00    | 9.07       | 9.51     | 10.11     | 10.33     | 10.11    | 11.46     | 13.29  | .....  | 4.78 | 6.39  |
| Twelfth.....         | 6.72   | 8.65    | 9.11       | 9.38     | 10.61     | 11.00     | 9.71     | 10.60     | 13.70  | .....  | 4.71 | 5.81  |
| The State, 1912..... | 6.58   | 7.93    | 8.12       | 7.65     | 10.17     | 10.36     | 10.71    | 13.28     | 13.97  | 0.08   | 5.15 | 6.00  |
| The State, 1911..... | 3.63   | 4.95    | 7.14       | 11.18    | 12.05     | 11.83     | 10.33    | 8.12      | 8.82   | 7.53   | 7.34 | 7.08  |
| The State, 1910..... | 7.00   | 7.92    | 9.34       | 11.08    | 11.05     | 11.10     | 12.12    | 11.76     | 14.88  | 0.05   | 9.23 | 3.47  |
| The State, 1909..... | 6.21   | 7.94    | 8.96       | 10.47    | 9.43      | 9.90      | 9.68     | 8.56      | 8.65   | 7.24   | 6.56 | 6.40  |
| The State, 1908..... | 7.41   | 8.60    | 8.83       | 11.04    | 10.67     | 10.12     | 9.22     | 9.55      | 12.07  | 0.29   | 4.38 | 7.22  |
| The State, 1907..... | 6.21   | 6.99    | 7.49       | 9.22     | 9.35      | 9.44      | 10.45    | 9.16      | 8.04   | 7.69   | 8.15 | 7.31  |
| The State, 1906..... | 5.10   | 7.66    | 8.40       | 9.64     | 10.46     | 11.26     | 11.56    | 11.69     | 14.15  | 1.06   | 1.78 | 6.89  |

Table 30 shows the total output and the number of tons mined in each half of the year, with the percentage of each period, by districts. The same showing is made for the years 1911 to 1906, inclusive.

TABLE 30—*Tons and percentages of output of shipping mines for the first and second six months of the fiscal year 1912.*

| Districts.           | Total<br>output<br>—tons. | Output six months<br>July 1 to Dec. 31, 1911. |           | Output six months<br>Jan. 1 to June 30, 1912. |           |
|----------------------|---------------------------|---|-----------|---|-----------|
|                      |                           | Tons.   | Per cent. | Tons.   | Per cent. |
| First.....           | 2,351,330                 | 1,282,391                                     | 54.54     | 1,068,939                                     | 45.46     |
| Second.....          | 2,051,523                 | 1,074,263                                     | 52.36     | 977,260                                       | 47.64     |
| Third.....           | 2,767,346                 | 1,450,142                                     | 52.40     | 1,317,204                                     | 47.60     |
| Fourth.....          | 2,333,758                 | 1,239,905                                     | 53.12     | 1,093,853                                     | 48.88     |
| Fifth.....           | 5,002,440                 | 2,564,113                                     | 51.26     | 2,438,327                                     | 48.74     |
| Sixth.....           | 5,928,518                 | 3,059,232                                     | 51.60     | 2,869,286                                     | 48.40     |
| Seventh.....         | 7,170,963                 | 3,966,660                                     | 55.32     | 3,204,303                                     | 44.68     |
| Eighth.....          | 5,801,039                 | 2,902,479                                     | 50.03     | 2,898,560                                     | 49.97     |
| Ninth.....           | 4,409,341                 | 2,078,945                                     | 47.15     | 2,330,396                                     | 52.85     |
| Tenth.....           | 3,023,344                 | 1,558,192                                     | 51.54     | 1,465,152                                     | 48.46     |
| Eleventh.....        | 8,198,472                 | 4,425,022                                     | 53.97     | 3,773,450                                     | 46.03     |
| Twelfth.....         | 7,058,621                 | 3,921,119                                     | 55.55     | 3,137,502                                     | 44.45     |
| The State, 1912..... | 56,096,695                | 29,522,463                                    | 52.63     | 26,574,232                                    | 47.37     |
| The State, 1911..... | 48,758,657                | 24,860,243                                    | 50.98     | 23,898,414                                    | 49.02     |
| The State, 1910..... | 47,225,205                | 27,153,536                                    | 57.50     | 20,071,665                                    | 42.50     |
| The State, 1909..... | 47,958,562                | 25,377,999                                    | 52.92     | 22,580,563                                    | 47.08     |
| The State, 1908..... | 47,809,730                | 27,093,821                                    | 56.67     | 20,715,909                                    | 43.33     |
| The State, 1907..... | 46,436,839                | 22,847,429                                    | 49.20     | 23,589,410                                    | 50.80     |
| The State, 1906..... | 37,096,945                | 19,486,025                                    | 52.53     | 17,610,920                                    | 47.47     |

## HAULAGE.

Table 31 discloses the manner of hauling coal in the shipping mines of the State.

For comparison, the five prior years are shown, and it will be seen that motor haulage has steadily increased in the number of mines using, the number of motors used and the tonnage hauled.

TABLE 31—*Haulage of coal in shipping mines of the State by districts.*

| Districts.        | Number of mines. | Motors. |            |            | Cable.           |           | Mule.            |            | Hand.            |         |
|-------------------|------------------|---------|------------|------------|------------------|-----------|------------------|------------|------------------|---------|
|                   |                  | No.     | Kind.      | Tons.      | Number of mines. | Tons.     | Number of mines. | Tons.      | Number of mines. | Tons.   |
| First.....        | 1                | 2       | Electric.. | 205,737    | ...              | .....     | 22               | 2,115,911  | 1                | 29,682  |
| Second.....       | 1                | 3       | ..do.....  | 148,475    | ...              | .....     | 12               | 1,903,048  | ...              | .....   |
| Third.....        | 10               | 21      | ..do.....  | 1,163,595  | ...              | .....     | 22               | 1,603,751  | ...              | .....   |
| Fourth.....       | 7                | 14      | *Electric. | 1,349,276  | ...              | .....     | 13               | 984,482    | ...              | .....   |
| Fifth.....        | 15               | 33      | Electric.. | 3,824,123  | ...              | .....     | 19               | 1,178,317  | ...              | .....   |
| Sixth.....        | 16               | 33      | *Electric. | 4,109,717  | 3                | 168,153   | 17               | 1,750,648  | ...              | .....   |
| Seventh.....      | 16               | 43      | ..do.....  | 6,031,518  | ...              | .....     | 7                | 1,139,445  | ...              | .....   |
| Eighth.....       | 21               | 51      | Electric.. | 5,169,219  | ...              | .....     | 8                | 631,820    | ...              | .....   |
| Ninth.....        | 17               | 24      | *Electric. | 1,748,873  | ...              | .....     | 41               | 2,660,468  | ...              | .....   |
| Tenth.....        | 15               | 35      | Electric.. | 1,868,856  | 2                | 232,817   | 23               | 921,671    | ...              | .....   |
| Eleventh.....     | 25               | 76      | .....      | 6,752,617  | ...              | .....     | 13               | 1,445,855  | ...              | .....   |
| Twelfth.....      | 21               | 46      | *Electric. | 5,586,044  | ...              | .....     | 13               | 1,472,577  | ...              | .....   |
| The State, 1912.. | 165              | 381     | .....      | 37,958,050 | 4                | 400,970   | 210              | 17,707,993 | 1                | 29,682  |
| The State, 1911.. | 137              | 303     | .....      | 29,310,173 | 24               | 2,321,016 | 219              | 16,839,883 | 7                | 287,585 |
| The State, 1910.. | 106              | 229     | .....      | 23,204,480 | 25               | 2,508,343 | 251              | 21,243,637 | 8                | 268,741 |
| The State, 1909.. | 96               | 210     | .....      | 21,892,462 | 16               | 1,396,154 | 268              | 24,645,398 | 4                | 24,548  |
| The State, 1908.. | 88               | 185     | .....      | 19,024,665 | 32               | 3,273,753 | 283              | 25,482,634 | 4                | 28,678  |
| The State, 1907.. | 75               | 129     | .....      | 16,542,575 | 25               | 2,864,241 | 303              | 26,689,533 | 5                | 46,865  |

\* Thirteen Gasoline.

Table 32 gives in detail the mines in which motors are used for underground haulage, arranged by districts, and show the location, name and number of motors in use and the tons hauled.

TABLE 32—*Shipping mines using motor haulage, with name and number of motors in use, kind in use and tons hauled—1912.*

| Number. | Districts and operator.             | Location.           | Motors.                            |            | Tonnage.   |
|---------|-------------------------------------|---------------------|------------------------------------|------------|------------|
|         |                                     |                     | Name.                              | Kind.      |            |
|         | The State—165 mines.....            |                     | 381 motors.....                    |            | 37,958,050 |
|         | First District—1 mine.....          |                     |                                    |            |            |
| 1       | Oglesby Coal Co.....                | Oglesby.....        | 2 Goodman.....                     | Electric.. | 205,737    |
|         | Second District—1 mine.....         |                     |                                    |            |            |
| 1       | Marquette 3d Vein Coal Co.....      | Marquette.....      | 3 Goodman.....                     | Electric.. | 148,475    |
|         | Third District—10 mines.....        |                     | 21 motors.....                     |            | 1,163,595  |
| 1       | Toluca Coal Co.....                 | Toluca.....         | 2 Westinghouse; 3 Goodman.....     | Electric.. | 257,472    |
| 2       | Clark C. & C. Co., No. 2.....       | Peoria.....         | 5 Goodman.....                     | ..do.....  | 253,414    |
| 3       | Crescent Coal Co.....               | ..do.....           | 1 Goodman, 1 General Electric..... | ..do.....  | 180,325    |
| 4       | Demling and Cruickshank, No. 3..... | ..do.....           | 1 Goodman; 1 Morgan-Gardner.....   | ..do.....  | 109,648    |
| 5       | Newsam Bros.....                    | Kingston Mines..... | 1 Goodman.....                     | ..do.....  | 108,233    |
| 6       | Wolschlah Coöperative Coal Co.....  | Peoria.....         | 1 Goodman; 1 Jeffrey.....          | ..do.....  | 87,841     |
| 7       | Applegate and Lewis.....            | Hanna City.....     | 1 Goodman.....                     | ..do.....  | 51,503     |
| 8       | Brewster and Evans Co.....          | Peoria.....         | 1 General Electric.....            | ..do.....  | 49,946     |
| 9       | Olympia Coal Co.....                | Edwardsville.....   | 1 Jeffrey.....                     | ..do.....  | 42,900     |
| 10      | Warsaw Coal Co.....                 | Edwards.....        | 1 General Electric.....            | ..do.....  | 22,312     |
|         | Fourth District—7 mines.....        |                     | 14 motors.....                     |            | 1,349,276  |
| 1       | Maplewood Col. Co., No. 2.....      | Farmington.....     | 1 Westinghouse; 1 Jeffrey.....     | Electric.. | 303,500    |
| 2       | Big Creek Coal Co., No. 2.....      | St. David.....      | 2 Jeffrey; 1 Goodman.....          | ..do.....  | 271,729    |
| 3       | Monmouth Coal Co., No. 1.....       | Brereton.....       | 2 Goodman.....                     | ..do.....  | 206,430    |
| 4       | Big Creek Coal Co., No. 4.....      | Dunfermline.....    | 2 Jeffrey; 1 Morgan-Gardner.....   | ..do.....  | 190,460    |
| 5       | Canton Coal Co.....                 | Canton.....         | 2 Morgan-Gardner.....              | ..do.....  | 158,817    |
| 6       | Eagle Mining Co.....                | ..do.....           | 1 Milwaukee.....                   | Gasoline.. | 132,360    |
| 7       | Maplewood Col. Co., No. 1.....      | Farmington.....     | 1 Westinghouse.....                | Electric.. | 85,980     |

Table 32—Continued.

| Number. | Districts and operator.               | Location.        | Motors.                               |            | Tonnage.  |
|---------|---------------------------------------|------------------|---------------------------------------|------------|-----------|
|         |                                       |                  | Name.                                 | Kind.      |           |
|         | Fifth District—15 mines.....          |                  | 33 motors.....                        |            | 3,824,123 |
| 1       | Christian Co. Coal Co.....            | Taylorville..... | 2 Goodman.....                        | Electric.. | 302,278   |
| 2       | Springfield Coal Co., No. 6.....      | do.....          | 2 Goodman.....                        | do.....    | 235,220   |
| 3       | Penwell Coal Mining Co.....           | Pana.....        | 3 Goodman.....                        | do.....    | 190,104   |
| 4       | Pana Coal Co., No. 1.....             | do.....          | 2 Goodman.....                        | do.....    | 185,588   |
| 5       | Stonington Coal Co.....               | Stonington.....  | 1 Goodman.....                        | do.....    | 175,516   |
| 6       | Smith-Lohr C. M. Co.....              | Pana.....        | 2 Jeffrey.....                        | do.....    | 134,885   |
| 7       | Assumption C. Co.....                 | Assumption.....  | 1 Goodman.....                        | do.....    | 75,285    |
| 8       | Pana Coal Co., No. 8.....             | Pana.....        | 2 Goodman.....                        | do.....    | 41,647    |
| 9       | Moweaqua C. M. & Mfg. Co., No. 1..... | Moweaqua.....    | 1 Goodman.....                        | do.....    | 53,426    |
| 10      | Bunsen Coal Co., Verm.....            | Westville.....   | 3 Jeffrey.....                        | do.....    | 640,664   |
| 11      | Bunsen Coal Co., No. 4.....           | do.....          | 2 Goodman; 2 General Electric.....    | do.....    | 561,169   |
| 12      | Dering Coal Co., No. 2.....           | do.....          | 2 Morgan-Gardner; 1 Westinghouse..... | do.....    | 326,947   |
| 13      | Bunsen Coal Co., No. 2.....           | do.....          | 2 Goodman.....                        | do.....    | 302,724   |
| 14      | Deering Coal Co., No. 3.....          | Steelton.....    | 1 Morgan-Gardner; 2 Westinghouse..... | do.....    | 301,193   |
| 15      | Bunsen Coal Co., No. 3.....           | Westville.....   | 2 Jeffrey.....                        | do.....    | 297,587   |
|         | Sixth District—16 mines.....          |                  | 33 motors.....                        |            | 4,199,717 |
| 1       | Latham Coal Co., North.....           | Lincoln.....     | 2 Goodman.....                        | Electric.. | 227,586   |
| 2       | Chi., Wilm. & V. C. Co., No. 1.....   | Thayer.....      | 2 Morgan-Gardner; 2 Goodman.....      | do.....    | 486,140   |
| 3       | Jones and Adams C. Co.....            | Springfield..... | 3 Jeffrey.....                        | do.....    | 472,380   |
| 4       | Springfield C. M. Co., No. 2.....     | Riverton.....    | 2 Goodman.....                        | do.....    | 388,937   |
| 5       | Ill. Midland Coal Co., No. 5.....     | Pawnee.....      | 2 General Electric.....               | do.....    | 382,588   |
| 6       | Madison Coal Corp., No. 6.....        | Divernon.....    | 2 Goodman.....                        | do.....    | 354,650   |
| 7       | Black Diamond C. Co.....              | Auburn.....      | 2 Jeffrey; 2 Goodman.....             | do.....    | 311,600   |
| 8       | Woodside Coal Co.....                 | Springfield..... | 2 Jeffrey.....                        | do.....    | 296,354   |
| 9       | Ill. Midland C. Co., No. 6.....       | Sherman.....     | 1 Whitecomb.....                      | Gasoline.. | 265,683   |
| 10      | Capital Coal Co., No. 2.....          | Springfield..... | 2 Goodman.....                        | Electric.. | 222,792   |
| 11      | Springfield C. M. Co., No. 5.....     | do.....          | 2 Whitecomb.....                      | Gasoline.. | 191,634   |
| 12      | West End Coal Co.....                 | do.....          | 1 Goodman; 1 Jeffrey.....             | Electric.. | 119,261   |
| 13      | Cantrall Coöper. Coal Co.....         | Cantrall.....    | 1 Jeffrey.....                        | do.....    | 117,291   |
| 14      | Spring. Coöper. C. Co. New N.....     | Springfield..... | 1 Jeffrey.....                        | do.....    | 115,390   |
| 15      | Barelay C. & Mining Co.....           | Barelay.....     | 2 Goodman.....                        | do.....    | 81,658    |
| 16      | Dickerson Coal Co., Empire.....       | Springfield..... | 1 Goodman.....                        | do.....    | 74,863    |



Table 32—Continued.

| Number. | Districts and operator.                | Location.         | Motors.                   |            | Tonnage.  |
|---------|--|-------------------|---------------------------|------------|-----------|
|         |  |                   | Name.                     | Kind.      |           |
|         | Seventh District—15 mines.....         |                   | 43 motors.....            |            | 6,031,518 |
| 1       | Superior Coal Co., No. 3.....          | Gillespie.....    | 3 Jeffrey; 1 Goodman..... | Electric.. | 821,678   |
| 2       | Superior Coal Co., No. 2.....          | ..do.....         | 2 Jeffrey; 1 Goodman..... | ..do.....  | 777,263   |
| 3       | Superior Coal Co., No. 1.....          | ..do.....         | 5 Jeffrey.....            | ..do.....  | 654,264   |
| 4       | Consolidated Coal Co., No. 14.....     | Staunton.....     | 2 General Electric.....   | ..do.....  | 494,314   |
| 5       | Consolidated Coal Co., No. 15.....     | Mt. Olive.....    | 2 General Electric.....   | ..do.....  | 418,048   |
| 6       | Royal Col. Co., No. 1.....             | Virden.....       | 3 Westinghouse.....       | ..do.....  | 331,584   |
| 7       | Girard Col. Co., No. 5.....            | Girard.....       | 2 Goodman.....            | ..do.....  | 251,599   |
| 8       | Madison Coal Corp., No. 5.....         | Mt. Olive.....    | 2 Goodman.....            | ..do.....  | 224,790   |
| 9       | Vivian Col. Co., G. R.....             | Greenridge.....   | 2 Morgan-Gardner.....     | ..do.....  | 229,672   |
| 10      | Greenridge Coal Co., No. 1.....        | Virden.....       | 2 General Electric.....   | ..do.....  | 192,946   |
| 11      | Consolidated Coal Co. No. 8.....       | Mt. Olive.....    | 1 General Electric.....   | ..do.....  | 113,310   |
| 12      | Shoal Creek Coal Co., No. 1.....       | Panama.....       | 4 Goodman.....            | ..do.....  | 407,025   |
| 13      | Peabody Coal Co., No. 11.....          | Witt.....         | 2 Jeffrey.....            | ..do.....  | 366,937   |
| 14      | Montgomery Co. Coal Co.....            | Hillsboro.....    | 7 Jeffrey.....            | ..do.....  | 329,222   |
| 15      | Hillsboro Coal Co.....                 | ..do.....         | 1 Goodman.....            | ..do.....  | 293,619   |
| 16      | Cloverleaf Mining Co., No. 2.....      | Coffeen.....      | 1 Goodman.....            | ..do.....  | 134,247   |
|         | Eighth District—20 mines.....          |                   | 51 motors.....            |            | 5,169,219 |
| 1       | Southern C. & M. Co., No. 9.....       | New Baden.....    | 6 Goodman.....            | Electric.. | 352,301   |
| 2       | Breese-Trenton Mining Co.....          | Breese.....       | 4 Jeffrey.....            | ..do.....  | 230,060   |
| 3       | Breese-Trenton Mining Co.....          | Beckemeyer.....   | 1 Jeffrey.....            | ..do.....  | 171,752   |
| 4       | North Breese-Trenton C. M. Co.....     | Breese.....       | 2 Goodman.....            | ..do.....  | 163,726   |
| 5       | Consolidated Coal Co.....              | ..do.....         | 2 General Electric.....   | ..do.....  | 95,143    |
| 6       | New Staunton Coal Co., No. 1.....      | Livingston.....   | 3 Goodman.....            | ..do.....  | 737,632   |
| 7       | Mt. Olive and Stau. C. Co., No. 2..... | Staunton.....     | 2 Goodman.....            | ..do.....  | 506,944   |
| 8       | Donk Bros. C. & C. Co., No. 2.....     | Maryville.....    | 3 Goodman.....            | ..do.....  | 380,901   |
| 9       | Mt. Olive & Staup. C. Co., No. 1.....  | Staunton.....     | 2 Goodman.....            | ..do.....  | 311,682   |
| 10      | Lumaghi Coal Co., No. 2.....           | Collinsville..... | 2 Goodman.....            | ..do.....  | 238,140   |
| 11      | Ponk Bros. C. & C. Co., No. 1.....     | ..do.....         | 3 Goodman.....            | ..do.....  | 225,857   |
| 12      | Donk Bros. C. & C. Co., No. 3.....     | Troy.....         | 2 Goodman.....            | ..do.....  | 209,076   |
| 13      | Madison Coal Corporation, No. 2.....   | Glen Carbon.....  | 2 Goodman.....            | ..do.....  | 199,204   |
| 14      | Madison Coal Corporation, No. 4.....   | ..do.....         | 2 Goodman.....            | ..do.....  | 178,713   |
| 15      | Kerns-Donnewald Coal Co.....           | Worden.....       | 1 Westinghouse.....       | ..do.....  | 122,584   |
| 16      | DeCamp Coal Mining Co., No. 1.....     | Staunton.....     | 1 Goodman.....            | ..do.....  | 87,349    |
| 17      | Marion Co. Coal Co.....                | Centralia.....    | 3 Goodman.....            | ..do.....  | 357,648   |
| 18      | Centralia Coal Co., No. 2.....         | ..do.....         | 3 Jeffrey, 1 Goodman..... | ..do.....  | 245,901   |
| 19      | Centralia Coal Co., No. 4.....         | ..do.....         | 4 Goodman.....            | ..do.....  | 188,365   |
| 20      | Odin Coal Co.....                      | Odin.....         | 2 Goodman; 1 Jeffrey..... | ..do.....  | 167,138   |

Table 32—Continued.

| Number. | Districts and operator.           | Location.    | Motors.                                 |            | Tonnage.  |
|---------|-----------------------------------|--------------|---|------------|-----------|
|         |                                   |              | Name.                                   | Kind.      |           |
|         | Ninth District—17 mines.....      |              | 24 motors.....                          |            | 1,748,873 |
| 1       | St. L. and O'Fallon C. Co., No. 2 | E. St. Louis | 5 Goodman                               | Electric.. | 564,708   |
| 2       | Joseph Taylor.....                | O'Fallon     | 1 Jeffrey                               | do.....    | 180,593   |
| 3       | Superior C. M. Co.....            | Belleville   | 1 Whitecomb                             | Gasoline.  | 158,622   |
| 4       | St. Louis and O'Fallon, No. 1..   | E. St. Louis | 3 Goodman                               | Electric.. | 128,706   |
| 5       | Kolb Coal Co.....                 | Mascoutah    | 1 Whitecomb                             | Gasoline.  | 117,790   |
| 6       | Breese-Trenton Mining Co.....     | Trenton      | 1 Whitecomb                             | do.....    | 105,465   |
| 7       | Joseph Taylor.....                | O'Fallon     | 1 Whitecomb                             | do.....    | 98,046    |
| 8       | Joseph Taylor.....                | do.....      | 1 Jeffrey                               | Electric.. | 81,952    |
| 9       | Border Coal Co.....               | Marissa      | 1 Whitecomb                             | Gasoline.  | 64,218    |
| 10      | Mo. and Ill. Coal Co.....         | Rentchler    | 1 Goodman                               | Electric.. | 51,603    |
| 11      | International Coal Co.....        | O'Fallon     | 1 Jeffrey                               | do.....    | 40,780    |
| 12      | Egyptian Coal M. Co.....          | Marissa      | 2 Goodman                               | do.....    | 36,407    |
| 13      | Glendale C. & M. Co.....          | Belleville   | 1 Goodman                               | do.....    | 29,660    |
| 14      | L. Senior.....                    | do.....      | 1 Ellison                               | Gasoline.  | 25,910    |
| 15      | Gouch C. & M. Co.....             | Rentchler    | 1 Jeffrey                               | Electric.. | 23,740    |
| 16      | Tirre C. & M. Co.....             | Lenzburg     | 1 Goodman                               | do.....    | 22,414    |
| 17      | Vulcan C. & M. Co.....            | Belleville   | 1 General Electric                      | do.....    | 18,259    |
|         | Tenth District—15 mines.....      |              | 35 motors.....                          |            | 1,868,856 |
| 1       | Big M. C. & I. Co. No. 9.....     | Murphysboro  | 1 General Electric; 1 West-<br>inghouse | Electric.. | 216,445   |
| 2       | Big M. C. & I. Co., Harrison      | do.....      | 3 Goodman                               | do.....    | 114,271   |
| 3       | Willis C. & M. Co.....            | DuQuoin      | 4 Goodman                               | do.....    | 222,541   |
| 4       | Majestic Coal Co.....             | do.....      | 1 Goodman                               | do.....    | 176,038   |
| 5       | Paradise Coal Co.....             | do.....      | 3 Goodman                               | do.....    | 173,789   |
| 6       | Security C. M. Co. No. 1.....     | do.....      | 2 Goodman                               | do.....    | 130,575   |
| 7       | Mo. and Ill. Coal Co. No. 4.....  | Willisville  | 1 Goodman                               | do.....    | 128,712   |
| 8       | Brilliant C. M. Co.....           | DuQuoin      | 1 Goodman                               | do.....    | 61,780    |
| 9       | St. Louis and Coulterville C. Co. | Coulterville | 1 General Electric                      | do.....    | 37,192    |
| 10      | Bessmer C. & M. Co.....           | Pinkneyville | 1 Goodman                               | do.....    | 18,002    |
| 11      | Willis C. M. Co. No. 6.....       | Percy        | 2 Goodman                               | do.....    | 188,779   |
| 12      | Wilson Bros. C. Co. No. 7.....    | Sparta       | 1 Goodman                               | do.....    | 112,312   |
| 13      | Ill. Fuel Co. No. 4.....          | do.....      | 1 Goodman                               | do.....    | 97,508    |
| 14      | Boyd C. & C. Co. No. 1.....       | do.....      | 5 Ellison                               | do.....    | 37,951    |
| 15      | Centralia Coal Co. No. 5.....     | Centralia    | 7 Goodman                               | do.....    | 152,961   |

Table 32—Continued.

| Number. | Districts and operator.          | Location.       | Motors.   |            | Tonnage.  |
|---------|----------------------------------|-----------------|---|------------|-----------|
|         |                                  |                 | Name.   | Kind.      |           |
|         | Eleventh District—25 mines.....  |                 | 76 motors.....                                    |            | 6,752,617 |
| 1       | United C. M. Co., No. 1.....     | Christopher.... | 6 Goodman; 2 Jeffrey....                          | Electric.. | 524,163   |
| 2       | Zeigler Dist. Col. Co.....       | do.....         | 2 Morgan-Gardner; 1 Jeffrey; 1 General Electric.. | do.....    | 475,386   |
| 3       | Sesser Coal Co.....              | Sesser.....     | 2 Westinghouse; 2 General Electric.....           | do.....    | 424,449   |
| 4       | Bell-Zollar M. Co. No., 1.....   | Zeigler.....    | 2 Jeffrey; 1 Goodman; 10 Westinghouse.....        | do.....    | 423,687   |
| 5       | Benton Coal Co., No. 1.....      | Benton.....     | 3 Morgan-Gardner.....                             | do.....    | 382,465   |
| 6       | Hart-Williams Coal Co., No. 1..  | do.....         | 3 Morgan-Gardner.....                             | do.....    | 332,350   |
| 7       | W. P. Rend Col. Co., No. 1....   | Rend.....       | 2 Morgan-Garnder.....                             | do.....    | 267,411   |
| 8       | Dering Coal Co., No. 11.....     | W. Frankfort... | 2 Morgan-Gardner; 1 Goodman.....                  | do.....    | 221,906   |
| 9       | Franklin Co. Coal Co.....        | Royalton.....   | 3 Goodman.....                                    | do.....    | 212,112   |
| 10      | Ohio Valley Coal Co. No., 8....  | W. Frankfort... | 6 Jeffrey.....                                    | do.....    | 197,773   |
| 11      | United C. M. Co., No. 2.....     | Christopher.... | 2 Goodman.....                                    | do.....    | 69,985    |
| 12      | O'Gara Coal Co., No. 9.....      | Harrisburg..... | 2 Morgan-Gardner.....                             | do.....    | 523,583   |
| 13      | O'Gara Coal Co., No. 3.....      | do.....         | 2 Morgan-Gardner.....                             | do.....    | 383,685   |
| 14      | O'Gara Coal Co., No. 1.....      | do.....         | 2 Morgan-Gardner.....                             | do.....    | 286,318   |
| 15      | O'Gara Coal Co., No. 10.....     | do.....         | 2 Morgan-Gardner.....                             | do.....    | 265,915   |
| 16      | Harrisburg South. C. Co. No. 1.. | El Dorado.....  | 2 Morgan-Gardner.....                             | do.....    | 265,136   |
| 17      | Wasson Coal Co., No. 1.....      | Harrisburg....  | 2 Morgan-Gardner.....                             | do.....    | 259,421   |
| 18      | O'Gara Coal Co., No. 4.....      | do.....         | 2 Morgan-Gardner.....                             | do.....    | 244,900   |
| 19      | O'Gara Coal Co., No. 14.....     | do.....         | 2 Morgan-Gardner.....                             | do.....    | 238,076   |
| 20      | Saline Co. Coal Co., No. 3.....  | do.....         | 2 Morgan-Gardner.....                             | do.....    | 235,326   |
| 21      | O'Gara Coal Co., No. 15.....     | do.....         | 2 Morgan-Gardner.....                             | do.....    | 193,151   |
| 22      | O'Gara Coal Co., No. 11.....     | do.....         | 1 Morgan-Gardner.....                             | do.....    | 134,619   |
| 23      | O'Gara Coal Co., No. 7.....      | do.....         | 1 Morgan-Gardner.....                             | do.....    | 91,008    |
| 24      | O'Gara Coal Co., No. 8.....      | do.....         | 1 Morgan-Gardner.....                             | do.....    | 68,228    |
| 25      | O'Gara Coal Co., No. 12.....     | do.....         | 1 Morgan-Gardner.....                             | do.....    | 31,504    |

Table 32—Concluded.

| Number. | Districts and operator.                | Location.          | Motors.                            |            | Tonnage.  |
|---------|--|--------------------|------------------------------------|------------|-----------|
|         |  |                    | Name.                              | Kind.      |           |
|         | Twelfth District—21 mines.....         |                    | 46 motors.....                     |            | 5,586,044 |
| 1       | Big M. C. & I. Co., No. 8.....         | Clifford.....      | 1 Jeffrey; 2 General Electric..... | Electric.. | 570,695   |
| 2       | Johnston City Coal Co., No. 1.....     | Johnston City..... | 3 Morgan-Gardner.....              | ..do.....  | 510,236   |
| 3       | Madison Coal Corp., No. 9.....         | Dewmaine.....      | 2 Goodman.....                     | ..do.....  | 423,556   |
| 4       | Chi. and Cart. C. Co., A.....          | Herrin.....        | 3 Goodman.....                     | ..do.....  | 407,420   |
| 5       | Sunnyside Coal Co., No. 1.....         | ..do.....          | 1 Jeffrey; 3 Goodman.....          | ..do.....  | 342,383   |
| 6       | Western C. M. Co., Bush.....           | Bush.....          | 4 General Electric.....            | ..do.....  | 332,693   |
| 7       | Big M. C. & I. Co., No. 7.....         | Herrin.....        | 2 Jeffrey, 2 General Electric..... | ..do.....  | 343,509   |
| 8       | W. P. Bend C. & C. Co., No. 2.....     | ..do.....          | 2 Morgan-Gardner.....              | ..do.....  | 290,938   |
| 9       | Madison Coal Corp., No. 8.....         | Dewmaine.....      | 2 Westinghouse.....                | ..do.....  | 288,968   |
| 10      | Peabody Coal Co., No. 2.....           | Marion.....        | 2 Goodman.....                     | ..do.....  | 228,365   |
| 11      | Taylor Coal Co., No. 2.....            | Herrin.....        | 1 Whitecomb.....                   | Gasoline.. | 227,819   |
| 12      | Peabody Coal Co., No. 3.....           | Marion.....        | 2 Goodman; 1 Morgan-Gardner.....   | Electric.. | 222,701   |
| 13      | Chi. Big M. Coal Co.....               | ..do.....          | 2 Goodman; 1 Jeffrey.....          | ..do.....  | 204,392   |
| 14      | Chi. & Cart. Coal Co., B.....          | Herrin.....        | 2 Westinghouse.....                | ..do.....  | 197,534   |
| 15      | West. Va. Coal Co., No. 1.....         | Marion.....        | 1 Jeffrey.....                     | ..do.....  | 192,357   |
| 16      | South. Ill. C. & C. Co., O. R.....     | Herrin.....        | 1 Whitecomb.....                   | Gasoline.. | 188,873   |
| 17      | Big Muddy Fuel Co.....                 | Johnston City..... | 1 Goodman.....                     | Electric.. | 179,381   |
| 18      | Cartersville Dist. Coal Co. No. 1..... | Marion.....        | 1 Whitecomb.....                   | Gasoline.. | 174,390   |
| 19      | St. Louis & Cartersville, Dale.....    | Herrin.....        | 1 Jeffrey; 1 Goodman.....          | Electric.. | 114,866   |
| 20      | Wasson Coal Co.....                    | ..do.....          | 1 Whitecomb.....                   | Gasoline.. | 106,605   |
| 21      | Pittsburg Big M. Co., No. 2.....       | Pittsburg.....     | 1 Goodman.....                     | Electric.. | 38,363    |

Table 33. The names and number of motors in use, by districts, together with the record for the five preceding years, are given in this table.

TABLE 33—*Name and number of motors in use, by districts—1912.*

| Districts.       | Ellisons. | General Electric. | Goodman. | Jeffrey. | Morgan-Gardner. | Porter, H. K. | Wagner. | Westinghouse. | Brook & Brinkman. | McClelland. | Morgan 3d rail. | Whitecomb. | Milwaukee. | Total. |
|------------------|-----------|-------------------|----------|----------|-----------------|---------------|---------|---------------|-------------------|-------------|-----------------|------------|------------|--------|
| First.....       |           |                   | 2        | 2        |                 |               |         |               |                   |             |                 |            |            | 2      |
| Second.....      |           |                   | 3        |          |                 |               |         |               |                   |             |                 |            |            | 3      |
| Third.....       | 3         | 13                | 2        | 1        |                 |               |         | 2             |                   |             |                 |            |            | 21     |
| Fourth.....      |           | 3                 | 5        | 3        |                 |               |         | 2             |                   |             |                 |            |            | 14     |
| Fifth.....       | 2         | 18                | 7        | 3        |                 |               |         | 3             |                   |             |                 |            | 1          | 33     |
| Sixth.....       | 2         | 16                | 10       | 2        |                 |               |         |               |                   |             |                 | 3          |            | 33     |
| Seventh.....     | 7         | 12                | 19       | 2        |                 |               |         | 3             |                   |             |                 |            |            | 43     |
| Eighth.....      | 2         | 39                | 9        |          |                 |               |         | 1             |                   |             |                 |            |            | 51     |
| Ninth.....       | 1         | 1                 | 13       | 4        |                 |               |         |               |                   |             |                 | 5          |            | 24     |
| Tenth.....       | 5         | 2                 | 27       |          |                 |               |         | 1             |                   |             |                 |            |            | 35     |
| Eleventh.....    | 3         | 11                | 12       | 38       |                 |               |         | 12            |                   |             |                 |            |            | 76     |
| Twelfth.....     | 4         | 17                | 7        | 10       |                 |               |         | 4             |                   |             |                 | 4          |            | 46     |
| The State, 1912. | 6         | 26                | 174      | 75       | 59              |               |         | 28            |                   |             |                 | 12         | 1          | 381    |
| The State, 1911. | 2         | 34                | 140      | 55       | 38              |               | 1       | 31            |                   |             |                 | 2          |            | 303    |
| The State, 1910. | 3         | 14                | 114      | 46       | 30              | 4             | 1       | 17            |                   |             |                 |            |            | 229    |
| The State, 1909. | 1         | 14                | 102      | 40       | 26              | 4             |         | 20            |                   | 2           |                 | 1          |            | 210    |
| The State, 1908. | 3         | 13                | 91       | 32       | 20              | 4             |         | 18            | 2                 |             | 2               |            |            | 185    |
| The State, 1907. | 3         | 69                | 27       | 9        | 1               |               |         | 17            |                   |             | 3               |            |            | 129    |

## RELATIVE RANK

Table 34 gives the name and rank of the counties which have produced Williamson County heads the list this year, while St. Clair County, which

TABLE 34—*Relative rank of counties producing 500,000*

| Counties.                        | 1912. |            | 1911. |            | 1910. |            | 1909. |            | 1908. |            |
|----------------------------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|
|                                  | Rank. | Tonnage.   | Rank. | Tonnage.   | Rank. | Tonnage.   | Rank. | Tonnage.   | Rank. | Tonnage.   |
| Williamson .....                 | 1     | 7,086,554  | 2     | 5,212,749  | 1     | 5,908,544  | 1     | 5,901,815  | 1     | 5,367,140  |
| Sangamon .....                   | 2     | 5,488,419  | 3     | 4,716,406  | 2     | 5,183,322  | 2     | 5,334,148  | 2     | 5,082,626  |
| Macoupin .....                   | 3     | 4,913,050  | 4     | 4,279,383  | 4     | 4,040,425  | 3     | 4,361,390  | 4     | 4,224,865  |
| St. Clair .....                  | 4     | 4,516,548  | 1     | 5,274,006  | 3     | 4,184,555  | 4     | 3,409,362  | 3     | 4,413,639  |
| Saline .....                     | 5     | 4,088,575  | 7     | 3,232,736  | 6     | 3,062,098  | 6     | 2,798,527  | 7     | 2,482,677  |
| Franklin .....                   | 6     | 4,026,815  | 8     | 2,356,439  | 7     | 2,071,143  | 7     | 2,442,978  | 10    | 1,678,195  |
| Madison .....                    | 7     | 3,454,536  | 5     | 3,766,002  | 5     | 3,719,155  | 5     | 3,287,418  | 5     | 3,584,106  |
| Vermilion .....                  | 8     | 3,374,443  | 6     | 3,270,380  | 8     | 2,033,467  | 8     | 2,221,634  | 6     | 2,659,762  |
| Fulton .....                     | 9     | 2,437,173  | 10    | 1,865,222  | 9     | 1,979,138  | 9     | 2,205,322  | 8     | 2,141,489  |
| Montgomery .....                 | 10    | 2,280,341  | 9     | 2,189,078  | 10    | 1,814,203  | 13    | 1,480,635  | 14    | 1,382,368  |
| Bureau .....                     | 11    | 1,681,103  | 13    | 1,234,121  | 13    | 1,352,994  | 11    | 1,654,902  | 9     | 1,688,528  |
| LaSalle .....                    | 12    | 1,605,482  | 12    | 1,354,784  | 11    | 1,471,944  | 10    | 1,666,220  | 11    | 1,626,931  |
| Perry .....                      | 13    | 1,406,317  | 11    | 1,451,080  | 12    | 1,390,436  | 12    | 1,536,903  | 12    | 1,610,411  |
| Christian .....                  | 14    | 1,346,191  | 14    | 1,206,467  | 14    | 1,317,487  | 14    | 1,380,515  | 13    | 1,426,123  |
| Peoria .....                     | 15    | 1,207,723  | 18    | 964,698    | 18    | 924,873    | 18    | 821,329    | 17    | 1,054,673  |
| Marion .....                     | 16    | 1,203,947  | 15    | 1,134,377  | 15    | 1,065,268  | 16    | 1,096,847  | 18    | 954,925    |
| Clinton .....                    | 17    | 1,012,982  | 17    | 1,000,536  | 16    | 1,000,935  | 17    | 1,051,108  | 16    | 1,152,670  |
| Randolph .....                   | 18    | 762,816    | 16    | 1,005,447  | 19    | 1,846,969  | 19    | 757,622    | 19    | 777,327    |
| Grundy .....                     | 19    | 756,388    | 20    | 601,393    | 17    | 927,152    | 15    | 1,177,073  | 15    | 1,174,482  |
| Jackson .....                    | 20    | 724,374    | 19    | 648,551    | 20    | 665,385    | 20    | 650,033    | 20    | 637,090    |
| Putnam .....                     | 21    | 716,531    | 21    | 585,135    | ..... | .....      | 21    | 561,804    | ..... | .....      |
| Menard .....                     | ..... | .....      | ..... | .....      | ..... | .....      | ..... | .....      | ..... | .....      |
| Marshall .....                   | ..... | .....      | ..... | .....      | ..... | .....      | ..... | .....      | ..... | .....      |
| Mercer .....                     | ..... | .....      | ..... | .....      | ..... | .....      | ..... | .....      | ..... | .....      |
| Total, counties<br>and tons .... | 21    | 54,090,308 | 21    | 47,348,990 | 20    | 44,926,493 | 21    | 45,797,585 | 20    | 45,120,027 |

## OF COUNTIES.

500,000 tons or more of coal for one or more of the years since 1903. was in the first place last year, drops to fourth.

*tons of coal or over for a series of ten years—1903-1912.*

| 1907. |            | 1906. |            | 1905. |            | 1904. |            | 1903. |            | Counties.                     |
|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------------------------------|
| Rank. | Tonnage.   | Rank. | Tonnage.   | Rank. | Tonnage.   | Rank. | Tonnage.   | Rank. | Tonnage.   |                               |
| 1     | 5,266,452  | 3     | 3,927,189  | 2     | 3,815,751  | 4     | 3,038,466  | 4     | 2,711,767  | Williamson .....              |
| 2     | 4,876,621  | 2     | 4,155,431  | 1     | 4,395,050  | 1     | 4,516,385  | 1     | 4,386,526  | Sangamon .....                |
| 4     | 4,227,267  | 4     | 3,241,087  | 6     | 2,530,840  | 6     | 2,221,474  | 6     | 2,223,055  | Macoupin .....                |
| 3     | 4,435,070  | 1     | 4,168,019  | 3     | 3,398,032  | 2     | 3,418,479  | 2     | 3,134,679  | St. Clair .....               |
| 10    | 1,711,825  | 18    | 601,979    | ..... | .....      | ..... | .....      | ..... | .....      | Saline .....                  |
| 18    | 863,165    | ..... | .....      | ..... | .....      | ..... | .....      | ..... | .....      | Franklin .....                |
| 5     | 3,573,163  | 5     | 3,031,553  | 4     | 2,987,906  | 5     | 3,030,892  | 5     | 2,551,587  | Madison .....                 |
| 6     | 3,019,934  | 6     | 2,012,805  | 5     | 2,618,375  | 3     | 3,114,060  | 3     | 2,893,233  | Vermilion .....               |
| 7     | 1,993,401  | 8     | 1,593,793  | 9     | 1,439,489  | 10    | 1,284,279  | 10    | 1,036,496  | Fulton .....                  |
| 15    | 1,078,336  | 17    | 649,839    | ..... | .....      | ..... | .....      | ..... | .....      | Montgomery .....              |
| 8     | 1,891,900  | 9     | 1,547,456  | 7     | 1,751,875  | 7     | 1,832,577  | 8     | 1,778,302  | Bureau .....                  |
| 11    | 1,644,686  | 7     | 1,595,327  | 8     | 1,696,853  | 8     | 1,773,189  | 7     | 1,877,555  | LaSalle .....                 |
| 9     | 1,743,922  | 10    | 1,443,926  | 11    | 1,268,718  | 11    | 1,240,174  | 11    | 1,031,751  | Perry .....                   |
| 13    | 1,235,566  | 13    | 826,500    | 15    | 857,890    | 13    | 986,685    | 14    | 926,563    | Christian .....               |
| 17    | 1,027,023  | 12    | 844,484    | 13    | 904,892    | 14    | 939,737    | 15    | 920,716    | Peoria .....                  |
| 14    | 1,084,783  | 14    | 826,280    | 12    | 1,086,350  | 12    | 1,083,734  | 12    | 1,002,047  | Marion .....                  |
| 16    | 1,061,410  | 15    | 770,689    | 14    | 904,826    | 15    | 925,515    | 16    | 870,518    | Clinton .....                 |
| 19    | 742,894    | 19    | 581,841    | 19    | 506,547    | 17    | 620,280    | ..... | .....      | Randolph .....                |
| 12    | 1,327,197  | 11    | 1,170,625  | 10    | 1,326,109  | 9     | 1,405,158  | 9     | 1,457,935  | Grundy .....                  |
| 20    | 705,363    | 16    | 759,962    | 16    | 802,101    | 16    | 862,641    | 13    | 972,284    | Jackson .....                 |
| ..... | .....      | ..... | .....      | ..... | .....      | ..... | .....      | ..... | .....      | Putnam .....                  |
| ..... | .....      | 20    | 536,273    | ..... | .....      | 19    | 543,763    | ..... | .....      | Menard .....                  |
| ..... | .....      | ..... | .....      | 18    | 510,968    | ..... | .....      | ..... | .....      | Marshall .....                |
| ..... | .....      | ..... | .....      | 17    | 544,220    | 18    | 601,508    | 17    | 648,070    | Mercer .....                  |
| 20    | 43,509,978 | 20    | 34,285,088 | 19    | 33,346,792 | 19    | 33,438,969 | 17    | 30,423,084 | Total, counties and tons .... |

Table 35 is a list of coal-producing counties of the State, showing the number of the inspection district, the number of mines, men employed and tons produced in each.

TABLE 35—*Coal-producing counties of the State, showing number of district, mines, men and tons, all mines, shipping mines, local mines—1912.*

| Number. | County.         | District. | All mines. |       |           | Shipping mines. |       |           | Local mines. |       |         |
|---------|-----------------|-----------|------------|-------|-----------|-----------------|-------|-----------|--------------|-------|---------|
|         |                 |           | Mines.     | Men.  | Tons.     | Mines.          | Men.  | Tons.     | Mines.       | Men.  | Tons.   |
| 1       | Bond.....       | 8         | 2          | 316   | 183,180   | 2               | 316   | 183,180   | .....        | ..... | .....   |
| 2       | Bureau.....     | 2         | 13         | 3,945 | 1,681,103 | 7               | 3,901 | 1,664,092 | 6            | 44    | 17,011  |
| 3       | Calhoun.....    | 7         | 1          | 10    | 1,660     | .....           | ..... | .....     | 1            | 10    | 1,660   |
| 4       | Christian.....  | 5         | 9          | 2,071 | 1,346,191 | 8               | 2,058 | 1,340,503 | 1            | 13    | 5,688   |
| 5       | Clinton.....    | 8         | 5          | 1,315 | 1,012,982 | 5               | 1,315 | 1,012,982 | .....        | ..... | .....   |
| 6       | Franklin.....   | 11        | 16         | 4,472 | 4,026,815 | 16              | 4,472 | 4,026,815 | .....        | ..... | .....   |
| 7       | Fulton.....     | 4         | 133        | 3,908 | 2,437,173 | 20              | 3,540 | 2,333,758 | 113          | 368   | 103,415 |
| 8       | Gallatin.....   | 11        | 10         | 163   | 73,620    | 3               | 135   | 63,127    | 7            | 28    | 10,493  |
| 9       | Greene.....     | 7         | 1          | 11    | 5,400     | .....           | ..... | .....     | 1            | 11    | 5,400   |
| 10      | Grundy.....     | 1         | 13         | 1,712 | 756,388   | 6               | 1,661 | 742,606   | 7            | 51    | 13,782  |
| 11      | Hancock.....    | 4         | 1          | 7     | 2,920     | .....           | ..... | .....     | 1            | 7     | 2,920   |
| 12      | Henry.....      | 2         | 23         | 232   | 87,171    | 1               | 95    | 42,995    | 22           | 137   | 44,176  |
| 13      | Jackson.....    | 10        | 21         | 1,158 | 724,374   | 7               | 1,071 | 687,857   | 14           | 87    | 36,517  |
| 14      | Jefferson.....  | 10        | 2          | 48    | 8,038     | 1               | 45    | 7,958     | 1            | 3     | 80      |
| 15      | Jersey.....     | 7         | 1          | 3     | 800       | .....           | ..... | .....     | 1            | 3     | 800     |
| 16      | Johnson.....    | 12        | 3          | 10    | 3,871     | .....           | ..... | .....     | 3            | 10    | 3,871   |
| 17      | Knox.....       | 2         | 25         | 112   | 34,517    | .....           | ..... | .....     | 25           | 112   | 34,517  |
| 18      | LaSalle.....    | 1         | 36         | 3,640 | 1,605,482 | 15              | 3,319 | 1,404,599 | 21           | 321   | 200,883 |
| 19      | Livingston..... | 1         | 8          | 155   | 71,685    | 1               | 45    | 29,682    | 7            | 110   | 42,003  |
| 20      | Logan.....      | 6         | 4          | 677   | 429,555   | 4               | 677   | 429,555   | .....        | ..... | .....   |
| 21      | Macon.....      | 5         | 5          | 597   | 271,626   | 5               | 597   | 271,626   | .....        | ..... | .....   |
| 22      | Macoupin.....   | 7         | 17         | 4,681 | 4,913,050 | 13              | 4,650 | 4,890,622 | 4            | 31    | 22,428  |
| 23      | Madison.....    | 8         | 27         | 4,385 | 3,454,536 | 16              | 4,301 | 3,400,930 | 11           | 84    | 53,606  |
| 24      | Marion.....     | 8         | 6          | 1,399 | 1,203,947 | 6               | 1,399 | 1,203,947 | .....        | ..... | .....   |
| 25      | Marshall.....   | 3         | 13         | 1,067 | 447,094   | 5               | 1,038 | 441,731   | 8            | 29    | 5,363   |
| 26      | McDonough.....  | 4         | 41         | 147   | 23,612    | .....           | ..... | .....     | 41           | 147   | 23,612  |
| 27      | McLean.....     | 6         | 2          | 200   | 96,898    | 2               | 200   | 96,898    | .....        | ..... | .....   |
| 28      | Menard.....     | 3         | 12         | 376   | 220,418   | 4               | 329   | 187,235   | 8            | 47    | 31,183  |
| 29      | Mercer.....     | 2         | 12         | 521   | 334,662   | 3               | 471   | 318,070   | 9            | 50    | 16,592  |
| 30      | Montgomery..... | 7         | 10         | 2,672 | 2,280,341 | 10              | 2,672 | 2,280,341 | .....        | ..... | .....   |
| 31      | Moultrie.....   | 5         | 1          | 68    | 54,162    | 1               | 68    | 54,162    | .....        | ..... | .....   |
| 32      | Morgan.....     | 4         | 1          | 8     | 1,085     | .....           | ..... | .....     | 1            | 8     | 1,085   |



Table 35—Concluded.

| Number.    | County.          | District. | All mines. |        |            | Shipping mines. |        |            | Local mines. |       |           |
|------------|------------------|-----------|------------|--------|------------|-----------------|--------|------------|--------------|-------|-----------|
|            |                  |           | Mines.     | Men.   | Tons.      | Mines.          | Men.   | Tons.      | Mines.       | Men.  | Tons.     |
| 33         | Peoria.....      | 3         | 64         | 1,652  | 1,207,723  | 14              | 1,356  | 1,026,151  | 50           | 266   | 181,572   |
| 34         | Perry.....       | 10        | 24         | 2,430  | 1,406,317  | 19              | 2,402  | 1,394,940  | 5            | 28    | 11,377    |
| 35         | Putman.....      | 3         | 2          | 1,354  | 716,531    | 2               | 1,354  | 716,531    | .....        | ..... | .....     |
| 36         | Randolph.....    | 10        | 14         | 1,149  | 762,816    | 10              | 1,127  | 744,506    | 4            | 22    | 18,310    |
| 37         | Rock Island..... | 2         | 12         | 152    | 71,696     | 1               | 29     | 13,940     | 11           | 123   | 58,656    |
| 38         | Saline.....      | 11        | 39         | 4,687  | 4,088,575  | 18              | 4,659  | 4,076,756  | 12           | 28    | 11,819    |
| 39         | Sangamon.....    | 6         | 34         | 7,382  | 5,488,419  | 29              | 7,249  | 5,402,065  | 5            | 133   | 86,354    |
| 40         | Schuyler.....    | 4         | 4          | 10     | 2,736      | .....           | .....  | .....      | 4            | 10    | 2,736     |
| 41         | Scott.....       | 4         | 6          | 15     | 3,760      | .....           | .....  | .....      | 6            | 15    | 3,760     |
| 42         | Shelby.....      | 5         | 8          | 275    | 128,544    | 2               | 211    | 114,835    | 6            | 64    | 13,709    |
| 43         | Stark.....       | 2         | 8          | 82     | 32,746     | 1               | 33     | 13,326     | 7            | 49    | 19,420    |
| 44         | St. Clair.....   | 9         | 75         | 5,856  | 4,516,548  | 58              | 5,701  | 4,409,341  | 17           | 155   | 107,207   |
| 45         | Tazewell.....    | 3         | 8          | 392    | 239,424    | 5               | 341    | 209,802    | 3            | 51    | 29,622    |
| 46         | Vermilion.....   | 5         | 48         | 4,007  | 3,374,443  | 18              | 3,773  | 3,221,314  | 30           | 234   | 153,129   |
| 47         | Warren.....      | 2         | 12         | 44     | 8,498      | .....           | .....  | .....      | 12           | 44    | 8,498     |
| 48         | Washington.....  | 10        | 4          | 419    | 189,883    | 3               | 416    | 188,083    | 1            | 3     | 1,800     |
| 49         | White.....       | 11        | 1          | 55     | 31,774     | 1               | 55     | 31,774     | .....        | ..... | .....     |
| 50         | Will.....        | 1         | 3          | 429    | 179,001    | 2               | 412    | 174,443    | 1            | 17    | 4,558     |
| 51         | Williamson.....  | 12        | 46         | 8,512  | 7,086,554  | 34              | 8,461  | 7,058,621  | 12           | 51    | 27,933    |
| 52         | Woodford.....    | 3         | 2          | 423    | 183,896    | 2               | 423    | 183,896    | .....        | ..... | .....     |
| Total..... |                  |           | 879        | 79,411 | 57,514,240 | 380             | 76,407 | 56,096,695 | 499          | 3,004 | 1,417,545 |

Table 36 shows by districts the number of mines, the total product and its disposition. The totals for the local mines are shown at the bottom of the table.

TABLE 36—*Disposition of the culput of shipping mines, by districts, also local mines.*

| Districts.          | Number of mines. | Total output all grades—tons. | Disposition of product—tons. |                                  |                      |                               |
|---------------------|------------------|-------------------------------|------------------------------|----------------------------------|----------------------|-------------------------------|
|                     |                  |                               | Shipped from mine.           | Supplied to locomotives at mine. | Sold to local trade. | Consumed and wasted at mines. |
| First.....          | 24               | 2,351,330                     | 1,892,803                    | 69,102                           | 144,941              | 244,484                       |
| Second.....         | 13               | 2,051,523                     | 1,874,232                    | 32,424                           | 47,341               | 97,526                        |
| Third.....          | 32               | 2,767,346                     | 2,502,512                    | 57,935                           | 115,533              | 91,366                        |
| Fourth.....         | 20               | 2,333,758                     | 2,220,140                    | 33,960                           | 16,415               | 63,243                        |
| Fifth.....          | 34               | 5,002,440                     | 4,397,168                    | 71,712                           | 373,582              | 159,778                       |
| Sixth.....          | 35               | 5,928,518                     | 5,326,081                    | 97,039                           | 326,115              | 179,283                       |
| Seventh.....        | 23               | 7,170,963                     | 6,759,975                    | 58,688                           | 91,549               | 260,751                       |
| Eighth.....         | 29               | 5,801,039                     | 5,280,799                    | 210,959                          | 122,226              | 187,055                       |
| Ninth.....          | 58               | 4,409,341                     | 3,966,571                    | 132,368                          | 98,836               | 211,566                       |
| Tenth.....          | 40               | 3,023,344                     | 2,712,107                    | 105,410                          | 84,265               | 121,562                       |
| Eleventh.....       | 38               | 8,198,472                     | 7,876,035                    | 47,656                           | 89,091               | 185,690                       |
| Twelfth.....        | 34               | 7,058,621                     | 6,693,959                    | 7,601                            | 39,543               | 317,518                       |
| Shipping mines..... | 380              | 56,096,695                    | 51,502,382                   | 924,854                          | 1,549,437            | 2,120,022                     |
| Local mines.....    | 499              | 1,417,545                     | .....                        | .....                            | 1,066,241            | 351,304                       |
| The State.....      | 879              | 57,514,240                    | 51,502,382                   | 924,854                          | 2,615,678            | 2,471,326                     |

Table 37 is the percentage of the items shown in the preceding table. Ninety-one and eighty-one hundredths per cent of the total output was shipped to market this year.

TABLE 37—*Percentages of the output of shipping mines and local mines, also percentages of the distribution by district—1912.*

| Districts.          | Number of mines. | Percentages of tons— |          |                |                      |                              |
|---------------------|------------------|----------------------|----------|----------------|----------------------|------------------------------|
|                     |                  | Total output.        | Shipped. | To locomotive. | Sold to local trade. | Consumed or wasted at mines. |
| First.....          | 24               | 4.19                 | 80.49    | 2.94           | 6.17                 | 10.40                        |
| Second.....         | 13               | 3.65                 | 91.35    | 1.58           | 2.31                 | 4.76                         |
| Third.....          | 32               | 4.94                 | 90.43    | 2.10           | 4.17                 | 3.30                         |
| Fourth.....         | 20               | 4.16                 | 95.14    | 1.45           | 0.70                 | 2.71                         |
| Fifth.....          | 34               | 8.91                 | 87.90    | 1.44           | 7.47                 | 3.19                         |
| Sixth.....          | 35               | 10.56                | 89.84    | 1.64           | 5.50                 | 3.02                         |
| Seventh.....        | 23               | 12.79                | 94.27    | 0.82           | 1.28                 | 3.63                         |
| Eighth.....         | 29               | 10.34                | 91.03    | 3.64           | 2.11                 | 3.22                         |
| Ninth.....          | 58               | 7.86                 | 89.94    | 3.01           | 2.25                 | 4.80                         |
| Tenth.....          | 40               | 5.39                 | 89.70    | 3.49           | 2.79                 | 4.02                         |
| Eleventh.....       | 38               | 14.62                | 96.07    | 0.59           | 1.09                 | 2.25                         |
| Twelfth.....        | 34               | 12.59                | 94.83    | 0.12           | 0.56                 | 4.49                         |
| Shipping mines..... | 380              | 100.00               | 91.81    | 1.65           | 2.76                 | 3.78                         |
| Local mines.....    | 499              | 100.00               | .....    | .....          | 75.22                | 24.78                        |

Table 38. The percentages of the disposition of the product of the shipping and local mines is given in this table for a series of thirteen years. The per cent of the tons shipped is greater this year than for any year of the series.

TABLE 38—*Total output of the shipping and local mines of the State, also percentages of the distribution for thirteen years.*

| Year.     | Total output. | Percentages of— |                                |                           |                                       |
|-----------|---------------|-----------------|--------------------------------|---------------------------|---------------------------------------|
|           |               | Tons shipped.   | Tons supplied to loco-motives. | Tons sold to local trade. | Tons consumed or wasted at the mines. |
| 1900..... | 24,026,996    | 87.33           | 3.42                           | 5.12                      | 4.13                                  |
| 1901..... | 25,536,816    | 88.34           | 3.46                           | 4.12                      | 4.07                                  |
| 1902..... | 28,824,750    | 89.07           | 3.30                           | 3.74                      | 3.89                                  |
| 1903..... | 33,676,537    | 89.33           | 3.27                           | 3.59                      | 3.81                                  |
| 1904..... | 35,779,517    | 88.82           | 3.32                           | 3.80                      | 4.06                                  |
| 1905..... | 35,956,543    | 88.07           | 3.26                           | 3.88                      | 4.79                                  |
| 1906..... | 37,122,811    | 89.16           | 2.79                           | 3.75                      | 4.30                                  |
| 1907..... | 46,436,839    | 90.52           | 2.37                           | 2.84                      | 4.27                                  |
| 1908..... | 47,809,730    | 91.11           | 2.10                           | 2.73                      | 4.06                                  |
| 1909..... | 47,958,562    | 91.53           | 2.09                           | 2.62                      | 3.76                                  |
| 1910..... | 47,225,201    | 91.07           | 1.87                           | 3.40                      | 3.66                                  |
| 1911..... | 48,758,657    | 91.44           | 1.78                           | 3.00                      | 3.78                                  |
| 1912..... | 56,096,695    | 91.81           | 1.65                           | 2.76                      | 3.78                                  |

#### LOCAL MINES.

|           |           |       |       |       |       |
|-----------|-----------|-------|-------|-------|-------|
| 1900..... | 1,096,933 | ..... | 5.66  | 85.57 | 8.77  |
| 1901..... | 1,108,503 | ..... | 5.84  | 86.62 | 7.54  |
| 1902..... | 1,196,550 | ..... | 1.64  | 89.05 | 9.41  |
| 1903..... | 1,278,864 | ..... | 1.29  | 86.86 | 11.85 |
| 1904..... | 1,298,380 | ..... | 2.75  | 89.46 | 7.79  |
| 1905..... | 1,226,831 | ..... | 0.49  | 98.20 | 1.31  |
| 1906..... | 1,194,770 | ..... | ..... | 95.91 | 4.09  |
| 1907..... | 1,361,782 | ..... | ..... | 86.85 | 13.15 |
| 1908..... | 1,462,722 | ..... | 0.84  | 83.04 | 16.12 |
| 1909..... | 1,205,148 | ..... | 1.43  | 88.13 | 10.44 |
| 1910..... | 1,492,652 | ..... | 0.05  | 84.53 | 15.42 |
| 1911..... | 1,406,442 | ..... | 0.25  | 82.26 | 17.49 |
| 1912..... | 1,417,545 | ..... | ..... | 75.22 | 24.78 |

Table 39 shows the disposition of the tonnage of the shipping mines for the year by counties and districts and of the local mines by districts. The percentage of distribution is given under the totals of each district.

TABLE 39—*Disposition of output of shipping mines, by counties and districts, and local mines, by districts—1912.*

## FIRST DISTRICT.

| County.           | Number of mines. | Total tons. | Disposition of tonnage. |                                   |                      |                                  |
|-------------------|------------------|-------------|-------------------------|-----------------------------------|----------------------|----------------------------------|
|                   |                  |             | Shipped from mines.     | Supplied to locomotives at mines. | Sold to local trade. | Consumed or wasted at the mines. |
| Grundy.....       | 6                | 742,606     | 594,357                 | 2,398                             | 20,439               | 125,412                          |
| LaSalle.....      | 15               | 1,404,599   | 1,135,230               | 50,348                            | 113,446              | 105,575                          |
| Livingston.....   | 1                | 29,682      | 4,793                   | 16,356                            | 1,486                | 7,047                            |
| Will.....         | 2                | 174,443     | 158,423                 | .....                             | 9,570                | 6,450                            |
| The district..... | 24               | 2,351,330   | 1,892,803               | 69,102                            | 144,941              | 244,484                          |
| Percentages.....  | .....            | .....       | 80.49                   | 2.94                              | 6.17                 | 10.40                            |
| Local mines.....  | .....            | 261,226     | .....                   | .....                             | 80,436               | 180,790                          |

## SECOND DISTRICT.

|                   |       |           |           |        |         |        |
|-------------------|-------|-----------|-----------|--------|---------|--------|
| Bureau.....       | 7     | 1,664,092 | 1,515,414 | 31,031 | 35,295  | 82,352 |
| Henry.....        | 1     | 42,995    | 38,422    | .....  | 3,009   | 1,564  |
| Mercer.....       | 3     | 318,070   | 299,205   | 1,393  | 5,892   | 11,580 |
| Rock Island.....  | 1     | 13,040    | 11,135    | .....  | 825     | 1,080  |
| Stark.....        | 1     | 13,326    | 10,056    | .....  | 2,320   | 950    |
| The district..... | 13    | 2,051,523 | 1,874,232 | 32,424 | 47,341  | 97,526 |
| Percentages.....  | ..... | .....     | 91.35     | 1.58   | 2.31    | 4.76   |
| Local mines.....  | 92    | 198,870   | .....     | .....  | 192,219 | 6,651  |

Table 39—Continued.

## THIRD DISTRICT.

| County.           | Number of mines. | Total tons. | Disposition of tonnage. |                                   |                      |                                  |
|-------------------|------------------|-------------|-------------------------|-----------------------------------|----------------------|----------------------------------|
|                   |                  |             | Shipped from mines.     | Supplied to locomotives at mines. | Sold to local trade. | Consumed or wasted at the mines. |
| Marshall.....     | 5                | 441,731     | 359,649                 | 37,738                            | 23,460               | 20,884                           |
| Menard.....       | 4                | 189,235     | 153,178                 | 1,981                             | 26,261               | 7,815                            |
| Peoria.....       | 14               | 1,026,151   | 990,987                 | 7,430                             | 2,712                | 25,022                           |
| Putnam.....       | 2                | 716,531     | 681,723                 | 3,873                             | 8,961                | 21,974                           |
| Tazewell.....     | 5                | 209,802     | 161,393                 | 900                               | 41,859               | 5,650                            |
| Woodford.....     | 2                | 183,896     | 155,582                 | 6,013                             | 12,280               | 10,021                           |
| The district..... | 32               | 2,767,346   | 2,502,512               | 57,935                            | 115,533              | 91,366                           |
| Percentages.....  |                  |             | 90.43                   | 2.10                              | 4.17                 | 3.30                             |
| Local mines.....  | 69               | 247,740     |                         |                                   | 199,646              | 48,094                           |

## FOURTH DISTRICT.

|                   |     |           |           |        |         |        |
|-------------------|-----|-----------|-----------|--------|---------|--------|
| Fulton.....       | 20  | 2,333,758 | 2,220,140 | 33,960 | 16,415  | 63,243 |
| The district..... | 20  | 2,333,758 | 2,220,140 | 33,960 | 16,415  | 63,243 |
| Percentages.....  |     |           | 95.14     | 1.45   | 0.70    | 2.71   |
| Local mines.....  | 166 | 137,528   |           |        | 133,990 | 3,538  |

## FIFTH DISTRICT.

|                   |    |           |           |        |         |         |
|-------------------|----|-----------|-----------|--------|---------|---------|
| Christian.....    | 8  | 1,340,503 | 1,017,795 | 71,712 | 177,573 | 73,423  |
| Macon.....        | 5  | 271,626   | 116,273   |        | 138,724 | 16,629  |
| Moultrie.....     | 1  | 54,162    | 44,921    |        | 3,666   | 5,575   |
| Shelby.....       | 2  | 114,835   | 90,630    |        | 14,269  | 9,936   |
| Vermilion.....    | 18 | 3,221,314 | 3,127,549 |        | 39,350  | 54,415  |
| The district..... | 34 | 5,002,440 | 4,397,168 | 71,712 | 373,582 | 159,978 |
| Percentages.....  |    |           | 87.90     | 1.44   | 7.47    | 3.19    |
| Local mines.....  | 37 | 172,526   |           |        | 97,955  | 74,571  |

Table 39—Continued.

## SIXTH DISTRICT.

| County.           | Number of mines. | Total tons. | Disposition of tonnage. |                                   |                      |                                  |
|-------------------|------------------|-------------|-------------------------|-----------------------------------|----------------------|----------------------------------|
|                   |                  |             | Shipped from mines.     | Supplied to locomotives at mines. | Sold to local trade. | Consumed or wasted at the mines. |
| Logan.....        | 4                | 429,555     | 312,491                 | 23,814                            | 63,469               | 29,781                           |
| McLean .....      | 2                | 96,898      | 10,647                  | 23,304                            | 52,061               | 10,886                           |
| Sangamon.....     | 29               | 5,402,066   | 5,002,943               | 49,921                            | 210,555              | 138,616                          |
| The district..... | 35               | 5,928,518   | 5,326,081               | 97,039                            | 326,115              | 179,283                          |
| Percentages.....  |                  |             | 89.84                   | 1.64                              | 5.50                 | 3.02                             |
| Local mines.....  | 5                | 86,354      |                         |                                   | 80,759               | 5,595                            |

## SEVENTH DISTRICT.

|                   |    |           |           |        |        |         |
|-------------------|----|-----------|-----------|--------|--------|---------|
| Macoupin.....     | 13 | 4,890,622 | 4,580,249 | 58,688 | 49,318 | 202,367 |
| Montgomery.....   | 10 | 2,280,341 | 2,179,726 |        | 42,231 | 58,384  |
| The district..... | 23 | 7,170,963 | 6,759,975 | 58,688 | 91,549 | 260,751 |
| Percentages.....  |    |           | 94.27     | 0.82   | 1.28   | 3.63    |
| Local mines.....  | 7  | 30,288    |           |        | 28,324 | 1,964   |

## EIGHTH DISTRICT.

|                   |    |           |           |         |         |         |
|-------------------|----|-----------|-----------|---------|---------|---------|
| Bond.....         | 2  | 183,180   | 170,987   |         | 6,147   | 6,046   |
| Clinton.....      | 5  | 1,012,982 | 892,742   | 54,085  | 14,556  | 51,599  |
| Madison.....      | 16 | 3,400,930 | 3,243,647 | 12,183  | 57,676  | 87,424  |
| Marion.....       | 6  | 1,203,947 | 973,423   | 144,691 | 43,847  | 41,986  |
| The district..... | 29 | 5,801,039 | 5,280,799 | 210,959 | 122,226 | 187,055 |
| Percentages.....  |    |           | 91.03     | 3.64    | 2.11    | 3.22    |
| Local mines.....  | 11 | 53,606    |           |         | 33,211  | 20,395  |

## NINTH DISTRICT.

|                   |    |           |           |         |         |         |
|-------------------|----|-----------|-----------|---------|---------|---------|
| St. Clair.....    | 58 | 4,409,341 | 3,966,571 | 132,368 | 98,836  | 211,566 |
| The district..... | 58 | 4,409,341 | 3,966,571 | 132,368 | 98,836  | 211,566 |
| Percentages.....  |    |           | 89.94     | 3.01    | 2.25    | 4.80    |
| Local mines.....  | 17 | 107,207   |           |         | 104,495 | 2,712   |

Table 39—Concluded.

## TENTH DISTRICT.

| County.           | Number of mines. | Total tons. | Disposition of tonnage. |                                   |                      |                                  |
|-------------------|------------------|-------------|-------------------------|-----------------------------------|----------------------|----------------------------------|
|                   |                  |             | Shipped from mines.     | Supplied to locomotives at mines. | Sold to local trade. | Consumed or wasted at the mines. |
| Jackson.....      | 7                | 687,857     | 556,732                 | 44,941                            | 31,112               | 55,072                           |
| Jefferson.....    | 1                | 7,958       | 3,122                   | .....                             | 3,916                | 920                              |
| Perry.....        | 19               | 1,394,940   | 1,270,491               | 58,414                            | 24,896               | 41,139                           |
| Randolph.....     | 10               | 744,506     | 716,027                 | .....                             | 12,232               | 16,247                           |
| Washington.....   | 3                | 188,083     | 165,735                 | 2,055                             | 12,019               | 8,184                            |
| The district..... | 40               | 3,023,344   | 2,712,107               | 105,410                           | 84,265               | 121,562                          |
| Percentages.....  | .....            | .....       | 89.70                   | 3.49                              | 2.79                 | 4.02                             |
| Local mines.....  | 25               | 68,084      | .....                   | .....                             | 63,325               | 4,759                            |

## ELEVENTH DISTRICT.

|                   |       |           |           |        |        |         |
|-------------------|-------|-----------|-----------|--------|--------|---------|
| Franklin.....     | 16    | 4,026,815 | 3,862,229 | 625    | 48,191 | 115,770 |
| Gallatin.....     | 3     | 63,127    | 56,332    | 4,615  | 1,574  | 606     |
| Saline.....       | 18    | 4,076,756 | 3,937,538 | 38,870 | 32,573 | 67,775  |
| White.....        | 1     | 31,774    | 19,936    | 3,546  | 6,753  | 1,539   |
| The district..... | 38    | 8,198,472 | 7,876,035 | 47,656 | 89,091 | 185,690 |
| Percentages.....  | ..... | .....     | 9,607     | 0.59   | 1.09   | 2.25    |
| Local mines.....  | 19    | 22,312    | .....     | .....  | 22,042 | 270     |

## TWELFTH DISTRICT.

|                   |       |           |           |       |        |         |
|-------------------|-------|-----------|-----------|-------|--------|---------|
| Williamson.....   | 34    | 7,058,621 | 6,693,959 | 7,601 | 39,543 | 317,518 |
| The district..... | 34    | 7,058,621 | 6,693,959 | 7,601 | 39,543 | 317,518 |
| Percentages.....  | ..... | .....     | 94.83     | 0.12  | 0.56   | 4.49    |
| Local mines.....  | 15    | 31,804    | .....     | ..... | 29,839 | 1,965   |



## RAILROADS.

Table 40. In this table the number of tons of coal hauled to market by the different railroads, the number of tons used by the locomotives and the counties contributing the same are shown.

This year 33,744 tons were shipped by boat, leaving 51,468,638 tons transported by the forty-one railroads. The Illinois Central hauled 7,444,747 tons, or 14.46 per cent. The Chicago, Burlington & Quincy Railroad is in second place this year. Franklin County furnished 28.4 per cent of the total tons hauled by this road.

TABLE 40—*Railroads which have transported the coal produced by the shipping mines of the State, the counties contributing the tonnage to each road, and percentage.*

| Number. | Railroads and counties.         | Number of— |        | Tons received by each road for— |              | Percentage— |                          |
|---------|---------------------------------|------------|--------|---------------------------------|--------------|-------------|--------------------------|
|         |                                 | Counties.  | Mines. | Shipment.                       | Locomotives. | Shipped.    | Supplied to locomotives. |
|         | The State.....                  |            | 380    | 51,502,382                      | 924,854      | 100.00      | 100.00                   |
| 1       | Illinois Central.....           | 21         | 113    | 7,444,747                       | 335,283      | 100.00      | 100.00                   |
|         | Williamson.....                 |            | 18     | 2,069,734                       | 6,540        | 27.80       | 1.95                     |
|         | Perry.....                      |            | 14     | 859,338                         | 54,015       | 11.54       | 16.11                    |
|         | Marion.....                     |            | 6      | 624,410                         | 144,691      | 8.39        | 43.15                    |
|         | Sangamon.....                   |            | 8      | 607,694                         |              | 8.16        |                          |
|         | Franklin.....                   |            | 6      | 559,534                         | 625          | 7.52        | 0.19                     |
|         | St. Clair.....                  |            | 21     | 511,416                         | 39,670       | 6.87        | 11.83                    |
|         | Jackson.....                    |            | 4      | 368,449                         | 44,941       | 4.95        | 13.40                    |
|         | Madison.....                    |            | 2      | 355,318                         | 596          | 4.77        | 0.18                     |
|         | Christian.....                  |            | 5      | 285,508                         |              | 3.84        |                          |
|         | Macoupin.....                   |            | 1      | 224,790                         | 17,585       | 3.02        | 5.25                     |
|         | Logan.....                      |            | 4      | 179,776                         | 23,814       | 2.42        | 7.10                     |
|         | Randolph.....                   |            | 5      | 179,689                         |              | 2.41        |                          |
|         | Washington.....                 |            | 2      | 159,707                         |              | 2.15        |                          |
|         | LaSalle.....                    |            | 4      | 142,421                         |              | 1.91        |                          |
|         | Montgomery.....                 |            | 2      | 90,252                          |              | 1.21        |                          |
|         | Marshall.....                   |            | 1      | 79,744                          |              | 1.07        |                          |
|         | Shelby.....                     |            | 1      | 38,254                          |              | 0.51        |                          |
|         | Woodford.....                   |            | 1      | 38,109                          |              | 0.51        |                          |
|         | Macon.....                      |            | 2      | 31,102                          |              | 0.42        |                          |
|         | Saline.....                     |            | 4      | 29,892                          |              | 0.40        |                          |
|         | McLean.....                     |            | 2      | 9,610                           | 2,806        | 0.13        | 0.84                     |
| 2       | Chicago, Burlington and Quincy. | 13         | 51     | 7,194,537                       | 21,741       | 100.00      | 100.00                   |
|         | Franklin.....                   |            | 7      | 2,044,296                       |              | 28.41       |                          |
|         | Fulton.....                     |            | 15     | 1,829,372                       | 21,733       | 25.43       | 99.96                    |
|         | Williamson.....                 |            | 10     | 1,317,200                       | 8            | 18.31       | .04                      |
|         | Macoupin.....                   |            | 3      | 691,255                         |              | 9.61        |                          |
|         | LaSalle.....                    |            | 5      | 355,184                         |              | 4.94        |                          |
|         | Sangamon.....                   |            | 1      | 311,414                         |              | 4.33        |                          |
|         | Marion.....                     |            | 1      | 288,609                         |              | 4.01        |                          |
|         | Peoria.....                     |            | 4      | 262,797                         |              | 3.65        |                          |
|         | Henry.....                      |            | 1      | 38,422                          |              | 0.53        |                          |
|         | Montgomery.....                 |            | 1      | 19,014                          |              | 0.27        |                          |
|         | Bond.....                       |            | 1      | 15,400                          |              | 0.21        |                          |
|         | Bureau.....                     |            | 1      | 11,518                          |              | 0.16        |                          |
|         | Stark.....                      |            | 1      | 10,056                          |              | 0.14        |                          |

Table 40—Continued.

| Number. | Railroads and counties.            | Number of—     |        | Tons received by each road for— |                   | Percentage— |                             |
|---------|------------------------------------|----------------|--------|---------------------------------|-------------------|-------------|-----------------------------|
|         |                                    | Coun-<br>ties. | Mines. | Shipment.                       | Lo-<br>comotives. | Shipped.    | Supplied<br>to locomotives. |
| 3       | Chicago & Eastern Illinois .....   | 7              | 30     | 5,741,075                       | 26,348            | 100.00      | 100.00                      |
|         | Vermilion.....                     |                | 9      | 2,617,405                       |                   | 45.59       |                             |
|         | Williamson.....                    |                | 7      | 1,171,721                       |                   | 20.41       |                             |
|         | Franklin.....                      |                | 6      | 914,206                         |                   | 15.92       |                             |
|         | Montgomery.....                    |                | 4      | 594,931                         |                   | 10.37       |                             |
|         | Madison.....                       |                | 1      | 363,894                         |                   | 6.34        |                             |
|         | Christian.....                     |                | 2      | 78,358                          | 26,348            | 1.36        | 100.00                      |
|         | Jefferson.....                     |                | 1      | 560                             |                   | .01         |                             |
| 4       | Cleve., Cin., Chicago & St. L..... | 9              | 37     | 5,600,990                       | 84,829            | 100.00      | 100.00                      |
|         | Saline.....                        |                | 17     | 3,882,196                       | 38,870            | 69.31       | 45.82                       |
|         | Montgomery.....                    |                | 6      | 953,430                         |                   | 17.02       |                             |
|         | Madison.....                       |                | 1      | 363,894                         |                   | 6.50        |                             |
|         | Vermilion.....                     |                | 5      | 248,847                         |                   | 4.44        |                             |
|         | Tazewell.....                      |                | 2      | 72,761                          |                   | 1.30        |                             |
|         | Shelby.....                        |                | 1      | 52,376                          |                   | 0.94        |                             |
|         | Christian.....                     |                | 3      | 27,153                          | 25,461            | 0.48        | 30.01                       |
|         | McLean.....                        |                | 1      | 293                             | 20,498            | .01         | 24.17                       |
|         | LaSalle.....                       |                | 1      | 40                              |                   |             |                             |
| 5       | Wabash.....                        | 9              | 27     | 3,095,428                       | 93,079            | 100.00      | 100.00                      |
|         | Sangamon.....                      |                | 8      | 1,071,492                       | 34,077            | 34.62       | 36.61                       |
|         | Macoupin.....                      |                | 3      | 1,025,672                       | 39,099            | 33.13       | 42.01                       |
|         | Christian.....                     |                | 3      | 611,785                         | 19,903            | 19.77       | 21.38                       |
|         | Madison.....                       |                | 5      | 148,891                         |                   | 4.81        |                             |
|         | Vermilion.....                     |                | 1      | 113,875                         |                   | 3.68        |                             |
|         | Macon.....                         |                | 3      | 62,898                          |                   | 2.03        |                             |
|         | Moultrie.....                      |                | 1      | 44,912                          |                   | 1.45        |                             |
|         | Montgomery.....                    |                | 1      | 9,025                           |                   | 0.29        |                             |
|         | LaSalle.....                       |                | 2      | 6,878                           |                   | 0.22        |                             |
| 6       | Chicago & Alton.....               | 9              | 37     | 2,525,705                       | 10,972            | 100.00      | 100.00                      |
|         | Sangamon.....                      |                | 16     | 1,738,365                       | 1,672             | 68.83       | 15.24                       |
|         | Macoupin.....                      |                | 6      | 385,323                         | 2,004             | 15.26       | 18.27                       |
|         | Logan.....                         |                | 2      | 132,715                         |                   | 5.25        |                             |
|         | Menard.....                        |                | 2      | 69,311                          |                   | 2.74        |                             |
|         | LaSalle.....                       |                | 4      | 67,362                          | 7,296             | 2.67        | 66.49                       |
|         | Will.....                          |                | 1      | 64,579                          |                   | 2.56        |                             |
|         | Marshall.....                      |                | 2      | 62,756                          |                   | 2.48        |                             |
|         | Grundy.....                        |                | 3      | 5,041                           |                   | 0.20        |                             |
|         | McLean.....                        |                | 1      | 253                             |                   | 0.01        |                             |
| 7       | St. Louis, Iron Mt. & Southern..   | 3              | 24     | 2,483,792                       | 1,053             | 100.00      | 100.00                      |
|         | Williamson.....                    |                | 18     | 2,055,168                       | 1,053             | 82.74       | 100.00                      |
|         | Franklin.....                      |                | 4      | 344,193                         |                   | 13.86       |                             |
|         | Jackson.....                       |                | 2      | 84,431                          |                   | 3.40        |                             |
| 8       | Macoupin County Railway.....       | 1              | 3      | 2,253,209                       |                   | 100.00      |                             |
|         | Macoupin.....                      |                | 3      | 2,253,209                       |                   | 100.00      |                             |
| 9       | Chicago, Milwaukee & St. Paul..    | 3              | 6      | 1,427,786                       | 23,943            | 100.00      | 100.00                      |
|         | Putnam.....                        |                | 2      | 681,723                         | 3,873             | 47.75       | 16.18                       |
|         | Bureau.....                        |                | 2      | 393,623                         | 18,889            | 27.57       | 78.89                       |
|         | LaSalle.....                       |                | 2      | 352,440                         | 1,181             | 24.68       | 4.93                        |

Table 40—Continued.

| Number. | Railroads and counties.         | Number of—     |        | Tons received by each road for— |                   | Percentage— |                             |
|---------|---------------------------------|----------------|--------|---------------------------------|-------------------|-------------|-----------------------------|
|         |                                 | Coun-<br>ties. | Mines. | Shipment.                       | Lo-<br>comotives. | Shipped.    | Supplied<br>to locomotives. |
| 10      | Balt. & Ohio Southwestern ..... | 6              | 21     | 1,201,927                       | 57,631            | 100.00      | 100.00                      |
|         | Clinton.....                    |                | 4      | 566,616                         | 54,085            | 47.14       | 93.85                       |
|         | St. Clair.....                  |                | 7      | 354,551                         |                   | 29.50       |                             |
|         | Sangamon.....                   |                | 5      | 185,429                         |                   | 15.43       |                             |
|         | Marion.....                     |                | 1      | 60,404                          |                   | 5.02        |                             |
|         | White.....                      |                | 1      | 19,936                          | 3,546             | 1.66        | 6.15                        |
|         | Christian.....                  |                | 3      | 14,991                          |                   | 1.25        |                             |
| 11      | Southern.....                   | 3              | 12     | 1,042,345                       | 1,167             | 100.00      | 100.00                      |
|         | St. Clair.....                  |                | 10     | 715,757                         | 1,167             | 68.67       | 100.00                      |
|         | Clinton.....                    |                | 1      | 326,126                         |                   | 31.29       |                             |
|         | Jefferson.....                  |                | 1      | 462                             |                   | 0.04        |                             |
| 12      | Chicago & Northwestern.....     | 1              | 5      | 974,920                         | 12,142            | 100.00      | 100.00                      |
|         | Bureau.....                     |                | 5      | 974,920                         | 12,142            | 100.00      | 100.00                      |
| 13      | Vandalia Line.....              | 4              | 8      | 924,359                         |                   | 100.00      |                             |
|         | St. Clair.....                  |                | 1      | 449,805                         |                   | 48.66       |                             |
|         | Madison.....                    |                | 3      | 333,859                         |                   | 36.12       |                             |
|         | Bond.....                       |                | 1      | 123,380                         |                   | 13.35       |                             |
|         | Macon.....                      |                | 3      | 17,315                          |                   | 1.87        |                             |
| 14      | Litchfield & Madison.....       | 1              | 5      | 838,636                         | 5,941             | 100.00      | 100.00                      |
|         | Madison.....                    |                | 5      | 838,636                         | 5,941             | 100.00      | 100.00                      |
| 15      | East St. Louis & Suburban.....  | 1              | 6      | 804,836                         | 614               | 100.00      | 100.00                      |
|         | St. Clair.....                  |                | 6      | 804,836                         | 614               | 100.00      | 100.00                      |
| 16      | St. Louis, Troy & Eastern.....  | 1              | 3      | 781,835                         | 1,057             | 100.00      | 100.00                      |
|         | Madison.....                    |                | 3      | 781,835                         | 1,057             | 100.00      | 100.00                      |
| 17      | Mobile & Ohio.....              | 3              | 7      | 773,714                         |                   | 100.00      |                             |
|         | Perry.....                      |                | 2      | 341,040                         |                   | 44.08       |                             |
|         | Randolph.....                   |                | 3      | 328,822                         |                   | 42.50       |                             |
|         | Jackson.....                    |                | 2      | 103,852                         |                   | 13.42       |                             |
| 18      | St. Louis & O'Fallon.....       | 1              | 2      | 680,481                         | 6,418             | 100.00      | 100.00                      |
|         | St. Clair.....                  |                | 2      | 680,481                         | 6,418             | 100.00      | 100.00                      |
| 19      | Toledo, St. Louis & Western.... | 3              | 4      | 547,421                         |                   | 100.00      |                             |
|         | Montgomery.....                 |                | 2      | 513,074                         |                   | 93.54       |                             |
|         | Bond.....                       |                | 1      | 32,207                          |                   | 5.88        |                             |
|         | Madison.....                    |                | 1      | 2,140                           |                   | 0.58        |                             |
| 20      | Louisville & Nashville.....     | 5              | 21     | 539,635                         | 91,169            | 100.00      | 100.00                      |
|         | St. Clair.....                  |                | 13     | 449,725                         | 84,499            | 83.34       | 92.68                       |
|         | Gallatin.....                   |                | 3      | 56,332                          | 4,615             | 10.44       | 5.06                        |
|         | Saline.....                     |                | 3      | 25,450                          |                   | 4.71        |                             |
|         | Washington.....                 |                | 1      | 6,028                           | 2,055             | 1.12        | 2.26                        |
|         | Jefferson.....                  |                | 1      | 2,100                           |                   | 0.39        |                             |

Table 40—Continued.

| Number. | Railroads and counties.          | Number of—     |        | Tons received by each road for— |                        | Percentage— |                                  |
|---------|----------------------------------|----------------|--------|---------------------------------|------------------------|-------------|----------------------------------|
|         |                                  | Coun-<br>ties. | Mines. | Shipment.                       | Lo-<br>como-<br>tives. | Shipped.    | Supplied<br>to locomo-<br>tives. |
| 21      | Chicago, Peoria & St. Louis..... | 2              | 11     | 538,336                         | 12,431                 | 100.00      | 100.00                           |
|         | Sangamon.....                    | .....          | 9      | 454,469                         | 10,450                 | 84.42       | 84.06                            |
|         | Menard.....                      | .....          | 2      | 83,867                          | 1,981                  | 15.58       | 15.94                            |
| 22      | Elgin, Joliet & Eastern.....     | 2              | 7      | 514,805                         | 2,398                  | 100.00      | 100.00                           |
|         | Grundy.....                      | .....          | 6      | 420,961                         | 2,398                  | 81.77       | 100.00                           |
|         | Will.....                        | .....          | 1      | 93,844                          | .....                  | 18.23       | .....                            |
| 23      | Minneapolis & St. Paul.....      | 2              | 5      | 492,285                         | .....                  | 100.00      | 100.00                           |
|         | Peoria.....                      | .....          | 2      | 292,917                         | .....                  | 59.50       | .....                            |
|         | Fulton.....                      | .....          | 3      | 199,368                         | .....                  | 40.50       | .....                            |
| 24      | Chicago, Rock Island & Pacific.. | 5              | 12     | 438,977                         | 43,264                 | 100.00      | 100.00                           |
|         | LaSalle.....                     | .....          | 6      | 139,144                         | 41,871                 | 31.70       | 96.78                            |
|         | Bureau.....                      | .....          | 1      | 135,353                         | .....                  | 30.83       | .....                            |
|         | Mercer.....                      | .....          | 1      | 97,320                          | 1,393                  | 22.17       | 3.22                             |
|         | Marshall.....                    | .....          | 3      | 56,025                          | .....                  | 12.76       | .....                            |
|         | Rock Island.....                 | .....          | 1      | 11,135                          | .....                  | 2.54        | .....                            |
| 25      | Chicago & Illinois Midland.....  | 1              | 1      | 364,392                         | 3,722                  | 100.00      | 100.00                           |
|         | Sangamon.....                    | .....          | 1      | 364,392                         | 3,722                  | 100.00      | 100.00                           |
| 26      | Atchison, Topeka & Santa Fé ..   | 5              | 9      | 360,749                         | 44,651                 | 100.00      | 100.00                           |
|         | Marshall.....                    | .....          | 1      | 161,124                         | 37,738                 | 44.66       | 84.52                            |
|         | Woodford.....                    | .....          | 2      | 117,473                         | 6,013                  | 32.56       | 13.47                            |
|         | Tazewell.....                    | .....          | 2      | 65,674                          | 900                    | 18.22       | 2.01                             |
|         | LaSalle.....                     | .....          | 2      | 11,050                          | .....                  | 3.06        | .....                            |
|         | Grundy.....                      | .....          | 2      | 5,428                           | .....                  | 1.50        | .....                            |
| 27      | Illinois Traction System .....   | 3              | 10     | 351,593                         | .....                  | 100.00      | .....                            |
|         | Sangamon.....                    | .....          | 3      | 158,202                         | .....                  | 45.00       | .....                            |
|         | Vermilion.....                   | .....          | 6      | 147,422                         | .....                  | 41.93       | .....                            |
|         | Madison.....                     | .....          | 1      | 45,969                          | .....                  | 13.07       | .....                            |
| 28      | Toledo, Peoria & Western.....    | 3              | 4      | 231,942                         | 28,583                 | 100.00      | 100.00                           |
|         | Peoria.....                      | .....          | 2      | 116,493                         | .....                  | 50.23       | .....                            |
|         | Fulton.....                      | .....          | 1      | 110,656                         | 12,227                 | 47.71       | 42.78                            |
|         | Livingston.....                  | .....          | 1      | 4,793                           | 16,356                 | 2.06        | 57.22                            |
| 29      | Illinois Southern.....           | 2              | 4      | 223,974                         | .....                  | 100.00      | .....                            |
|         | Randolph.....                    | .....          | 3      | 207,516                         | .....                  | 92.65       | .....                            |
|         | Perry.....                       | .....          | 1      | 16,458                          | .....                  | 7.35        | .....                            |
| 30      | Rock Island & Southern.....      | 1              | 2      | 201,885                         | .....                  | 100.00      | .....                            |
|         | Mercer.....                      | .....          | 2      | 201,885                         | .....                  | 100.00      | .....                            |
| 31      | Chicago & Great Western.....     | 1              | 2      | 162,927                         | .....                  | 100.00      | .....                            |
|         | Grundy.....                      | .....          | 2      | 162,927                         | .....                  | 100.00      | .....                            |

Table 40—Concluded.

| Number. | Railroads and counties.         | Number of—     |        | Tons received by each road for— |                        | Percentage— |                                  |
|---------|---------------------------------|----------------|--------|---------------------------------|------------------------|-------------|----------------------------------|
|         |                                 | Coun-<br>ties. | Mines. | Shipment.                       | Lo-<br>como-<br>tives. | Shipped.    | Supplied<br>to locomo-<br>tives. |
| 32      | Peoria & Pekin Union.....       | 2              | 5      | 162,539                         | 7,430                  | 100.00      | 100.00                           |
|         | Peoria.....                     |                | 4      | 154,840                         | 7,430                  | 95.27       | 100.00                           |
|         | Tazewell.....                   |                | 1      | 7,690                           |                        | 4.73        |                                  |
| 33      | Peoria Railway Terminal.....    | 1              | 3      | 130,196                         |                        | 100.00      |                                  |
|         | Peoria.....                     |                | 3      | 130,196                         |                        | 100.00      |                                  |
| 34      | Cincinnati, Hamilton & Dayton.  | 2              | 6      | 116,444                         |                        | 100.00      |                                  |
|         | Sangamon.....                   |                | 4      | 111,486                         |                        | 95.74       |                                  |
|         | Macon.....                      |                | 2      | 4,958                           |                        | 4.26        |                                  |
| 35      | Iowa Central.....               | 1              | 1      | 80,744                          |                        | 100.00      |                                  |
|         | Fulton.....                     |                | 1      | 80,744                          |                        | 100.00      |                                  |
| 36      | Chicago, Indiana & Southern.... | 1              | 3      | 60,711                          |                        | 100.00      |                                  |
|         | LaSalle.....                    |                | 3      | 60,711                          |                        | 100.00      |                                  |
| 37      | Wabash, Chester & Western ....  | 1              | 4      | 53,655                          | 4,399                  | 100.00      | 100.00                           |
|         | Perry.....                      |                | 4      | 53,655                          | 4,399                  | 100.00      | 100.00                           |
| 38      | Coal Belt .....                 | 1              | 2      | 43,973                          |                        | 100.00      |                                  |
|         | Williamson.....                 |                | 2      | 43,973                          |                        | 100.00      |                                  |
| 39      | Eldorado, Marion & S. W.....    | 1              | 1      | 36,163                          |                        | 100.00      |                                  |
|         | Williamson.....                 |                | 1      | 36,163                          |                        | 100.00      |                                  |
| 40      | Lake Erie & Western.....        | 2              | 2      | 15,759                          |                        | 100.00      |                                  |
|         | Tazewell.....                   |                | 1      | 15,268                          |                        | 96.88       |                                  |
|         | McLean.....                     |                | 1      | 491                             |                        | 3.12        |                                  |
| 41      | Illinois Terminal.....          | 1              | 1      | 9,211                           | 4,589                  | 100.00      | 100.00                           |
|         | Madison.....                    |                | 1      | 9,211                           | 4,589                  | 100.00      |                                  |
|         | By boats—Illinois River.....    | 1              | 2      | 33,744                          |                        | 100.00      |                                  |
|         | Peoria.....                     |                | 2      | 33,744                          |                        | 100.00      |                                  |

Table 41 shows in a condensed form the names of the forty-one railroads which transported the product of the shipping mines. The number of counties and the number of mines served, the number of tons shipped and number used on locomotives, and the per cent of the total hauled by each road is also given. Four of these roads hauled on an average 6,495,337 tons, or more than one-half of the total tons shipped.

TABLE 41—*Railroads to which the coal has been delivered for shipment and for use on locomotives and the number of tons to each.*

| Number. | Railroads.                            | Number of— |        | Tons received by each road for— |              | Total tons. | Per cent hauled by each road. |
|---------|---------------------------------------|------------|--------|---------------------------------|--------------|-------------|-------------------------------|
|         |                                       | Counties.  | Mines. | Shipment.                       | Locomotives. |             |                               |
|         | Total—41 railroads and boats.....     |            | 380    | 51,502,382                      | 924,854      | 52,427,236  | 100.00                        |
| 1       | Illinois Central.....                 | 21         | 113    | 7,444,747                       | 335,283      | 7,780,030   | 14.46                         |
| 2       | Chicago, Burlington & Quincy.....     | 13         | 51     | 7,194,537                       | 21,741       | 7,216,278   | 13.97                         |
| 3       | Chicago & Eastern Illinois.....       | 7          | 30     | 5,741,075                       | 26,348       | 5,767,423   | 11.15                         |
| 4       | Cleveland, Cin., Chi. & St. Louis.... | 9          | 37     | 5,600,990                       | 84,829       | 5,685,819   | 10.88                         |
| 5       | Wabash.....                           | 9          | 27     | 3,095,428                       | 93,079       | 3,188,507   | 6.01                          |
| 6       | Chicago & Alton.....                  | 9          | 37     | 2,525,705                       | 10,972       | 2,536,677   | 4.90                          |
| 7       | St. Louis, Iron Mt. & Southern.....   | 3          | 24     | 2,483,792                       | 1,053        | 2,484,845   | 4.82                          |
| 8       | Macoupin County Ry.....               | 1          | 3      | 2,253,209                       |              | 2,253,209   | 4.37                          |
| 9       | Chicago, Milwaukee & St. Paul.....    | 3          | 6      | 1,427,786                       | 23,943       | 1,451,729   | 2.77                          |
| 10      | Baltimore & Ohio Southwestern.....    | 6          | 21     | 1,201,927                       | 57,631       | 1,259,558   | 2.33                          |
| 11      | Southern.....                         | 3          | 12     | 1,042,345                       | 1,167        | 1,043,512   | 2.02                          |
| 12      | Chicago & Northwestern.....           | 1          | 5      | 974,920                         | 12,142       | 987,062     | 1.89                          |
| 13      | Vandalia Line.....                    | 4          | 8      | 924,359                         |              | 924,359     | 1.79                          |
| 14      | Litchfield & Madison.....             | 1          | 5      | 838,636                         | 5,941        | 844,577     | 1.63                          |
| 15      | East St. Louis & Suburban.....        | 1          | 6      | 804,836                         | 614          | 805,450     | 1.56                          |
| 16      | St. Louis, Troy & Eastern.....        | 1          | 3      | 781,835                         | 1,057        | 782,892     | 1.52                          |
| 17      | Mobile & Ohio.....                    | 3          | 7      | 773,714                         |              | 773,714     | 1.50                          |
| 18      | St. Louis & O'Fallon.....             | 1          | 2      | 680,481                         | 6,418        | 686,899     | 1.32                          |
| 19      | Toledo, St. Louis & Western.....      | 3          | 4      | 547,421                         |              | 547,421     | 1.06                          |
| 20      | Louisville & Nashville.....           | 5          | 21     | 539,635                         | 91,169       | 630,804     | 1.05                          |
| 21      | Chicago, Peoria & St. Louis.....      | 2          | 11     | 538,336                         | 12,431       | 550,767     | 1.05                          |
| 22      | Elgin, Joliet & Eastern.....          | 2          | 7      | 514,805                         | 2,398        | 517,203     | 1.00                          |
| 23      | Minneapolis & St. Paul.....           | 2          | 5      | 492,285                         |              | 492,285     | .96                           |
| 24      | Chicago, Rock Island & Pacific.....   | 5          | 12     | 438,977                         | 43,264       | 482,241     | .85                           |
| 25      | Chicago & Illinois Midland.....       | 1          | 1      | 364,392                         | 3,722        | 368,114     | .71                           |
| 26      | Atchison, Topeka & Santa Fé.....      | 5          | 9      | 360,749                         | 44,651       | 405,400     | .70                           |
| 27      | Illinois Traction System.....         | 3          | 10     | 351,593                         |              | 351,593     | .68                           |

Table 41—Concluded.

| Number. | Railroads.                         | Number of—  |        | Tons received by each road for— |                | Total tons. | Per cent hauled by each road. |
|---------|------------------------------------|-------------|--------|---------------------------------|----------------|-------------|-------------------------------|
|         |                                    | Coun- ties. | Mines. | Ship- ment.                     | Locomo- tives. |             |                               |
| 28      | Toledo, Peoria & Western.....      | 3           | 4      | 231,942                         | 28,583         | 260,525     | .45                           |
| 29      | Illinois Southern.....             | 2           | 4      | 223,974                         | .....          | 223,974     | .43                           |
| 30      | Rock Island & Southern.....        | 1           | 2      | 201,885                         | .....          | 201,885     | .39                           |
| 31      | Chicago & Great Western.....       | 1           | 2      | 162,927                         | .....          | 162,927     | .32                           |
| 32      | Peoria & Pekin Union.....          | 2           | 5      | 162,539                         | 7,430          | 169,969     | .32                           |
| 33      | Peoria Railway Terminal.....       | 1           | 3      | 130,196                         | .....          | 130,196     | .25                           |
| 34      | Cincinnati, Hamilton & Dayton....  | 2           | 6      | 116,444                         | .....          | 116,444     | .23                           |
| 35      | Iowa Central.....                  | 1           | 1      | 80,744                          | .....          | 80,744      | .16                           |
| 36      | Chicago, Indiana & Southern.....   | 1           | 3      | 60,711                          | .....          | 60,711      | .12                           |
| 37      | Wabash, Chester & Western.....     | 1           | 4      | 53,655                          | 4,399          | 58,054      | .10                           |
| 38      | Coal Belt.....                     | 1           | 2      | 43,973                          | .....          | 43,973      | .09                           |
| 39      | Eldorado, Marion & Southwestern .. | 1           | 1      | 36,163                          | .....          | 36,163      | .07                           |
| 40      | Lake Erie & Western.....           | 2           | 2      | 15,759                          | .....          | 15,759      | .03                           |
| 41      | Illinois Terminal.....             | 1           | 1      | 9,211                           | 4,589          | 13,800      | .02                           |
|         | By boat—Illinois River.....        | 1           | 2      | 33,744                          | .....          | 33,744      | .07                           |

Table 42 is a list of the forty-one counties which supplied the commercial coal. They are arranged according to tonnage shipped and show the names and number of railroads, the number of mines supplying, the number of tons hauled and the per cent carried by each road.

TABLE 42—*Counties which have produced the commercial coal of the State, the tonnage delivered to the several railroads in each for transportation and the per cent hauled by each road.*

| Number. | Counties and railroads.                  | Number of—   |        | Tons delivered to each railroad. | Total tons shipped and per cent to each road. |
|---------|--|--------------|--------|----------------------------------|---|
|         |  | Rail- roads. | Mines. |                                  |   |
| 1       | Williamson.....                          | 6            | .....  | .....                            | 6,692,959                                     |
|         | Illinois Central.....                    | 18           | .....  | 2,069,734                        | 30.92   |
|         | St. Louis, Iron Mountain & Southern..... | 18           | .....  | 2,055,168                        | 30.70   |
|         | Chicago, Burlington & Quincy.....        | 10           | .....  | 1,317,200                        | 19.68   |
|         | Chicago & Eastern Illinois.....          | 7            | .....  | 1,171,721                        | 17.50   |
|         | Coal Belt.....                           | 2            | .....  | 43,973                           | 0.66  |
|         | Eldorado, Marion & Southwestern.....     | 1            | .....  | 36,163                           | 0.54  |

Table 42—Continued.

| Number. | Counties and railroads.                         | Number of— |        | Tons delivered to each railroad. | Total tons shipped and per cent to each road. |
|---------|---|------------|--------|----------------------------------|---|
|         |   | Railroads. | Mines. |                                  |   |
| 2       | Sangamon.....                                   | 9          |        |                                  | 5,002,943                                     |
|         | Chicagao & Alton.....                           | 16         |        | 1,738,365                        | 34.75   |
|         | Wabash.....                                     | 8          |        | 1,071,492                        | 21.42   |
|         | Illinois Central.....                           | 8          |        | 607,694                          | 12.15   |
|         | Chicago, Peoria & St. Louis.....                | 9          |        | 454,469                          | 9.08  |
|         | Chicago & Illinois Midland.....                 | 1          |        | 364,392                          | 7.28  |
|         | Chicago, Burlington & Quincy.....               | 1          |        | 311,414                          | 6.22  |
|         | Baltimore & Ohio Southwestern.....              | 5          |        | 185,429                          | 3.71  |
|         | Illinois Traction System.....                   | 3          |        | 158,202                          | 3.16  |
|         | Chicago, Hamilton & Dayton.....                 | 4          |        | 111,486                          | 2.23  |
| 3       | Macoupin.....                                   | 5          |        |                                  | 4,580,249                                     |
|         | Macoupin County Railway.....                    | 3          |        | 2,253,209                        | 49.20   |
|         | Wabash.....                                     | 3          |        | 1,025,672                        | 22.39   |
|         | Chicago, Burlington & Quincy.....               | 3          |        | 691,255                          | 15.09   |
|         | Chicago & Alton.....                            | 6          |        | 385,323                          | 8.41  |
|         | Illinois Central.....                           | 1          |        | 224,790                          | 4.91  |
| 4       | St. Clair.....                                  | 7          |        |                                  | 3,966,571                                     |
|         | East St. Louis & Suburban.....                  | 6          |        | 804,836                          | 20.29   |
|         | Southern.....                                   | 10         |        | 715,757                          | 18.09   |
|         | St. Louis & O'Fallon.....                       | 2          |        | 680,481                          | 17.15   |
|         | Illinois Central.....                           | 21         |        | 511,416                          | 12.80   |
|         | Vandalia Line.....                              | 1          |        | 449,805                          | 11.34   |
|         | Louisville & Nashville.....                     | 13         |        | 449,725                          | 11.34   |
|         | Baltimore & Ohio Southwestern.....              | 7          |        | 354,551                          | 8.99  |
| 5       | Saline.....                                     | 3          |        |                                  | 3,937,538                                     |
|         | Cleveland, Cincinnati, Chicago & St. Louis..... | 17         |        | 3,882,196                        | 98.59   |
|         | Illinois Central.....                           | 4          |        | 29,892                           | 0.76  |
|         | Louisville & Nashville.....                     | 3          |        | 25,450                           | 0.65  |
| 6       | Franklin.....                                   | 4          |        |                                  | 3,862,229                                     |
|         | Chicago, Burlington & Quincy.....               | 7          |        | 2,044,296                        | 52.93   |
|         | Chicago, & Eastern Illinois.....                | 6          |        | 914,206                          | 23.67   |
|         | Illinois Central.....                           | 6          |        | 559,534                          | 14.49   |
|         | St. Louis, Iron Mountain & Southern.....        | 4          |        | 344,193                          | 8.91  |
| 7       | Madison.....                                    | 10         |        |                                  | 3,243,647                                     |
|         | Litchfield & Madison.....                       | 5          |        | 838,636                          | 25.86   |
|         | St. Louis, Troy & Eastern.....                  | 3          |        | 781,835                          | 24.10   |
|         | Cleveland, Cincinnati, Chicago & St. Louis..... | 1          |        | 363,894                          | 11.22   |
|         | Chicago & Eastern Illinois.....                 | 1          |        | 363,894                          | 11.22   |
|         | Illinois Central.....                           | 2          |        | 355,318                          | 10.95   |
|         | Vandalia Line.....                              | 3          |        | 333,859                          | 10.29   |
|         | Wabash.....                                     | 5          |        | 148,891                          | 4.59  |
|         | Illinois Traction System.....                   | 1          |        | 45,969                           | 1.42  |
|         | Illinois Terminal.....                          | 1          |        | 9,211                            | 0.28  |
|         | Toledo, St. Louis & Western.....                | 1          |        | 2,140                            | 0.07  |
| 8       | Vermilion.....                                  | 4          |        |                                  | 3,127,549                                     |
|         | Chicago & Eastern Illinois.....                 | 9          |        | 2,617,405                        | 83.69   |
|         | Cleveland, Cincinnati, Chicago & St. Louis..... | 5          |        | 248,847                          | 7.96  |
|         | Illinois Traction System.....                   | 6          |        | 147,422                          | 4.71  |
|         | Wabash.....                                     | 1          |        | 113,875                          | 3.64  |



Table 42—Continued.

| Number. | Counties and railroads.                         | Number of— |        | Tons delivered to each railroad. | Total tons shipped and per cent to each road. |
|---------|---|------------|--------|----------------------------------|---|
|         |   | Railroads. | Mines. |                                  |   |
| 9       | Fulton.....                                     | 4          |        |                                  | 2,220,140                                     |
|         | Chicago, Burlington & Quincy.....               |            | 15     | 1,829,372                        | 82.40   |
|         | Minneapolis & St. Louis.....                    |            | 3      | 199,368                          | 8.98  |
|         | Toledo, Peoria & Western.....                   |            | 1      | 110,656                          | 4.98  |
|         | Iowa Central.....                               |            | 1      | 80,744                           | 3.64  |
| 10      | Montgomery.....                                 | 6          |        |                                  | 2,179,726                                     |
|         | Cleveland, Cincinnati, Chicago & St. Louis..... |            | 6      | 953,430                          | 43.74   |
|         | Chicago & Eastern Illinois.....                 |            | 4      | 594,931                          | 27.29   |
|         | Toledo, St. Louis & Western.....                |            | 2      | 513,074                          | 23.54   |
|         | Illinois Central.....                           |            | 2      | 90,252                           | 4.14  |
|         | Chicago, Burlington & Quincy.....               |            | 1      | 19,014                           | 0.88  |
|         | Wabash.....                                     |            | 1      | 9,025                            | 0.41  |
| 11      | Bureau.....                                     | 4          |        |                                  | 1,515,414                                     |
|         | Chicago & Northwestern.....                     |            | 5      | 974,920                          | 64.33   |
|         | Chicago, Milwaukee & St. Paul.....              |            | 2      | 393,623                          | 25.98   |
|         | Chicago, Rock Island & Pacific.....             |            | 1      | 135,353                          | 8.93  |
|         | Chicago, Burlington & Quincy.....               |            | 1      | 11,518                           | 0.76  |
| 12      | Perry.....                                      | 4          |        |                                  | 1,270,491                                     |
|         | Illinois Central.....                           |            | 14     | 859,338                          | 67.64   |
|         | Mobile & Ohio.....                              |            | 2      | 341,040                          | 26.84   |
|         | Wabash, Chester & Western.....                  |            | 4      | 53,625                           | 4.22  |
|         | Illinois Southern.....                          |            | 1      | 16,458                           | 1.30  |
| 13      | LaSalle.....                                    | 9          |        |                                  | 1,135,230                                     |
|         | Chicago, Burlington & Quincy.....               |            | 5      | 355,184                          | 31.29   |
|         | Chicago, Milwaukee & St. Paul.....              |            | 2      | 352,440                          | 31.05   |
|         | Illinois Central.....                           |            | 4      | 142,421                          | 12.55   |
|         | Chicago, Rock Island & Pacific.....             |            | 6      | 139,144                          | 12.26   |
|         | Chicago & Alton.....                            |            | 4      | 67,362                           | 5.93  |
|         | Chicago, Indiana & Southern.....                |            | 3      | 60,711                           | 5.35  |
|         | Atchison, Topeka & Santa Fé.....                |            | 2      | 11,050                           | 0.97  |
|         | Wabash.....                                     |            | 2      | 6,878                            | 0.60  |
|         | Cleveland, Cincinnati, Chicago & St. Louis..... |            | 1      | 40                               |   |
| 14      | Christian.....                                  | 5          |        |                                  | 1,017,795                                     |
|         | Wabash.....                                     |            | 3      | 611,785                          | 60.11   |
|         | Illinois Central.....                           |            | 5      | 285,508                          | 28.05   |
|         | Chicago & Eastern Illinois.....                 |            | 2      | 78,358                           | 7.70  |
|         | Cleveland, Cincinnati, Chicago & St. Louis..... |            | 3      | 27,153                           | 2.67  |
|         | Baltimore & Ohio Southwestern.....              |            | 1      | 14,991                           | 1.47  |
| 15      | Peoria.....                                     | 5          |        |                                  | 957,243                                       |
|         | Minneapolis & St. Louis.....                    |            | 2      | 292,917                          | 30.60   |
|         | Chicago, Burlington & Quincy.....               |            | 4      | 262,797                          | 27.46   |
|         | Peoria & Pekin Union.....                       |            | 4      | 154,840                          | 16.17   |
|         | Peoria Railway Terminal.....                    |            | 3      | 130,196                          | 13.60   |
|         | Toledo, Peoria & Western.....                   |            | 2      | 115,493                          | 12.17   |
| 16      | Marion.....                                     | 3          |        |                                  | 973,423                                       |
|         | Illinois Central.....                           |            | 6      | 624,410                          | 64.15   |
|         | Chicago, Burlington & Quincy.....               |            | 1      | 288,609                          | 29.65   |
|         | Baltimore & Ohio Southwestern.....              |            | 1      | 60,404                           | 6.20  |

Table 42—Continued.

| Number. | Counties and railroads.                         | Number of— |        | Tons delivered to each railroad. | Total tons shipped and per cent to each road. |
|---------|---|------------|--------|----------------------------------|---|
|         |   | Railroads. | Mines. |                                  |   |
| 17      | Clinton.....                                    | 2          |        |                                  | 892,742                                       |
|         | Baltimore & Ohio Southwestern.....              |            | 4      | 566,616                          | 63.47   |
|         | Southern.....                                   |            | 1      | 326,126                          | 36.53   |
| 18      | Randolph.....                                   | 3          |        |                                  | 716,027                                       |
|         | Mobile & Ohio.....                              |            | 3      | 328,822                          | 45.92   |
|         | Illinois Southern.....                          |            | 3      | 207,516                          | 28.98   |
|         | Illinois Central.....                           |            | 5      | 179,689                          | 25.10   |
| 19      | Putnam.....                                     | 1          |        |                                  | 618,723                                       |
|         | Chicago, Milwaukee & St. Paul.....              |            | 2      | 618,723                          | 100.00  |
| 20      | Grundy.....                                     | 4          |        |                                  | 594,357                                       |
|         | Elgin, Joliet & Eastern.....                    |            | 6      | 420,961                          | 70.83   |
|         | Chicago & Great Western.....                    |            | 2      | 162,927                          | 27.41   |
|         | Atchison, Topeka & Santa Fé.....                |            | 2      | 5,428                            | 0.91  |
|         | Chicago & Alton.....                            |            | 3      | 5,041                            | 0.85  |
| 21      | Jackson.....                                    | 3          |        |                                  | 556,732                                       |
|         | Illinois Central.....                           |            | 4      | 368,449                          | 66.18   |
|         | Mobile & Ohio.....                              |            | 2      | 103,852                          | 18.65   |
|         | St. Louis, Iron Mountain & Southern.....        |            | 2      | 84,431                           | 15.17   |
| 22      | Marshall.....                                   | 4          |        |                                  | 359,649                                       |
|         | Atchison, Topeka & Santa Fé.....                |            | 1      | 161,124                          | 44.80   |
|         | Illinois Central.....                           |            | 1      | 79,744                           | 22.20   |
|         | Chicago & Alton.....                            |            | 2      | 62,756                           | 17.45   |
|         | Chicago, Rock Island & Pacific.....             |            | 3      | 56,025                           | 15.55   |
| 23      | Logan.....                                      | 2          |        |                                  | 312,491                                       |
|         | Illinois Central.....                           |            | 4      | 179,776                          | 57.53   |
|         | Chicago & Alton.....                            |            | 2      | 132,715                          | 42.47   |
| 24      | Mercer.....                                     | 2          |        |                                  | 299,205                                       |
|         | Rock Island & Southern.....                     |            | 2      | 201,885                          | 67.47   |
|         | Chicago, Rock Island & Pacific.....             |            | 1      | 97,320                           | 32.53   |
| 25      | Bond.....                                       | 3          |        |                                  | 170,987                                       |
|         | Vandalia Line.....                              |            | 1      | 123,380                          | 72.16   |
|         | Toledo, St. Louis & Western.....                |            | 1      | 32,207                           | 18.84   |
|         | Chicago, Burlington & Quincy.....               |            | 1      | 15,400                           | 9.00  |
| 26      | Washington.....                                 | 2          |        |                                  | 165,735                                       |
|         | Illinois Central.....                           |            | 2      | 159,707                          | 96.36   |
|         | Louisville & Nashville.....                     |            | 1      | 6,028                            | 3.64  |
| 27      | Tazewell.....                                   | 4          |        |                                  | 161,393                                       |
|         | Cleveland, Cincinnati, Chicago & St. Louis..... |            | 2      | 72,761                           | 45.08   |
|         | Atchison, Topeka & Santa Fé.....                |            | 2      | 65,674                           | 40.69   |
|         | Lake Erie & Western.....                        |            | 1      | 15,268                           | 9.46  |
|         | Peoria & Pekin Union.....                       |            | 1      | 7,690                            | 4.77  |

Table 42—Continued.

| Number. | Counties and railroads.                         | Number of— |        | Tons delivered to each railroad. | Total tons shipped and per cent to each road. |
|---------|---|------------|--------|----------------------------------|---|
|         |   | Railroads. | Mines. |                                  |   |
| 28      | Will.....                                       | 2          |        |                                  | 158,423                                       |
|         | Elgin, Joliet & Eastern.....                    |            | 1      | 93,844                           | 54.24   |
|         | Chicago & Alton.....                            |            | 1      | 64,579                           | 45.76   |
| 29      | Woodford.....                                   | 2          |        |                                  | 155,582                                       |
|         | Atchison, Topeka & Santa Fé.....                |            | 2      | 117,473                          | 75.50   |
|         | Illinois Central.....                           |            | 1      | 38,109                           | 24.50   |
| 30      | Menard.....                                     | 2          |        |                                  | 153,178                                       |
|         | Chicago, Peoria & St. Louis.....                |            | 2      | 83,867                           | 54.75   |
|         | Chicago & Alton.....                            |            | 2      | 69,311                           | 45.25   |
| 31      | Macon.....                                      | 4          |        |                                  | 116,273                                       |
|         | Wabash.....                                     |            | 3      | 62,898                           | 54.09   |
|         | Illinois Central.....                           |            | 2      | 31,102                           | 26.75   |
|         | Vandalia Line.....                              |            | 3      | 17,315                           | 14.89   |
|         | Cincinnati, Hamilton & Dayton.....              |            | 2      | 4,953                            | 4.27  |
| 32      | Shelby.....                                     | 2          |        |                                  | 90,630  |
|         | Cleveland, Cincinnati, Chicago & St. Louis..... |            | 1      | 52,376                           | 57.79   |
|         | Illinois Central.....                           |            | 1      | 38,254                           | 42.21   |
| 33      | Gallatin.....                                   | 1          |        |                                  | 56,332  |
|         | Louisville & Nashville.....                     |            | 3      | 56,332                           | 100.00  |
| 34      | Moultrie.....                                   | 1          |        |                                  | 44,921  |
|         | Wabash.....                                     |            | 1      | 44,921                           | 100.00  |
| 35      | Henry.....                                      | 1          |        |                                  | 38,422  |
|         | Chicago, Burlington & Quincy.....               |            | 1      | 38,422                           | 100.00  |
| 36      | White.....                                      | 1          |        |                                  | 19,936  |
|         | Baltimore & Ohio Southwestern.....              |            | 1      | 19,936                           | 100.00  |
| 37      | McLean.....                                     | 4          |        |                                  | 10,647  |
|         | Illinois Central.....                           |            | 2      | 9,610                            | 90.26   |
|         | Lake Erie & Western.....                        |            | 1      | 491                              | 4.61  |
|         | Cleveland, Cincinnati, Chicago & St. Louis..... |            | 1      | 293                              | 2.75  |
|         | Chicago & Alton.....                            |            | 1      | 253                              | 2.38  |
| 38      | Rock Island.....                                | 1          |        |                                  | 11,135  |
|         | Chicago, Rock Island & Pacific.....             |            | 1      | 11,135                           | 100.00  |
| 39      | Stark.....                                      | 1          |        |                                  | 10,056  |
|         | Chicago, Burlington & Quincy.....               |            | 1      | 10,056                           | 100.00  |
| 40      | Livingston.....                                 | 1          |        |                                  | 4,793   |
|         | Toledo, Peoria & Western.....                   |            | 1      | 4,793                            | 100.00  |

Table 42—Concluded.

| Number. | Counties and railroads.                   | Number of— |        | Tons delivered to each railroad. | Total tons shipped and per cent to each road. |
|---------|---|------------|--------|----------------------------------|---|
|         |   | Railroads. | Mines. |                                  |   |
| 41      | Jefferson.....                            | 3          |        |                                  | 3,122   |
|         | Louisville & Nashville.....               |            | 1      | 2,100                            | 67.26   |
|         | Chicago & Eastern Illinois.....           |            | 1      | 560                              | 17.94   |
|         | Southern.....                             |            | 1      | 462                              | 14.80   |
|         | By boat—Illinois River—Peoria County..... |            | 2      | 33,744                           | 100.00  |
|         | The State.....                            |            |        | 51,502,382                       |   |

Table 43 is a condensed showing of the counties from which coal has been shipped, giving the number of mines, the number of railroads and the total tons shipped and used on locomotives. The per cent furnished by each county of the tonnage shipped, the total product of each county and the per cent shipped is also shown.

TABLE 43—Counties furnishing the commercial coal, number of shipping mines, number of railroads, tons delivered for shipment and for use on locomotives and the per cent of the total tons shipped furnished by each county; also, total product and the per cent shipped.

| Number. | Counties.         | Number of— |            | Tons delivered to railroads for— |              | Per cent furnished by each county. | Total product—Tons. | Per cent of total product shipped by each county. |
|---------|-------------------|------------|------------|----------------------------------|--------------|------------------------------------|---------------------|---|
|         |                   | Mines.     | Railroads. | Shipment.                        | Locomotives. |                                    |                     |   |
|         | Total 41 counties | 380        | .....      | 51,502,382                       | 924,854      | 100.00                             | 56,096,665          | 91.81   |
| 1       | Williamson.....   | 34         | 6          | 6,693,959                        | 7,601        | 13.00                              | 7,058,621           | 94.83   |
| 2       | Sangamon.....     | 29         | 9          | 5,002,943                        | 49,921       | 9.71                               | 5,402,065           | 92.61   |
| 3       | Macoupin.....     | 13         | 5          | 4,580,249                        | 58,688       | 8.89                               | 4,890,622           | 93.65   |
| 4       | St. Clair.....    | 58         | 7          | 3,966,571                        | 132,368      | 7.70                               | 4,409,341           | 89.96   |
| 5       | Saline.....       | 18         | 3          | 3,937,538                        | 38,870       | 7.65                               | 4,076,756           | 96.58   |
| 6       | Franklin.....     | 16         | 4          | 3,862,229                        | 625          | 7.50                               | 4,026,815           | 95.91   |
| 7       | Madison.....      | 16         | 10         | 3,243,647                        | 12,183       | 6.30                               | 3,400,930           | 95.38   |
| 8       | Vermilion.....    | 18         | 4          | 3,127,549                        | .....        | 6.07                               | 3,221,314           | 97.09   |
| 9       | Fulton.....       | 20         | 4          | 2,220,140                        | 33,960       | 4.31                               | 2,333,758           | 95.13   |
| 10      | Montgomery....    | 10         | 6          | 2,179,726                        | .....        | 4.23                               | 2,280,341           | 95.59   |
| 11      | Bureau.....       | 7          | 4          | 1,515,414                        | 31,031       | 2.94                               | 1,664,092           | 91.07   |
| 12      | Perry.....        | 19         | 4          | 1,270,491                        | 58,414       | 2.47                               | 1,394,940           | 91.07   |
| 13      | LaSalle.....      | 15         | 9          | 1,135,230                        | 50,348       | 2.20                               | 1,404,599           | 80.82   |
| 14      | Christian.....    | 8          | 5          | 1,017,795                        | 71,712       | 1.98                               | 1,340,503           | 75.93   |

Table 43—Concluded.

| Number. | Counties.       | Number of— |           | Tons delivered to railroads for— |              | Per cent furnished by each county. | Total product—Tons. | Per cent of total product shipped by each county. |
|---------|-----------------|------------|-----------|----------------------------------|--------------|------------------------------------|---------------------|---|
|         |                 | Mines.     | Railroads | Shipment.                        | Locomotives. |                                    |                     |   |
| 15      | Peoria.....     | 14         | 5         | 957,243                          | 7,430        | 1.86                               | 1,026,151           | 93.29   |
| 16      | Marion.....     | 6          | 3         | 973,423                          | 144,691      | 1.89                               | 1,203,947           | 80.02   |
| 17      | Clinton.....    | 5          | 2         | 892,742                          | 54,085       | 1.73                               | 1,012,982           | 88.13   |
| 18      | Randolph.....   | 10         | 3         | 716,027                          | .....        | 1.39                               | 744,506             | 96.17   |
| 19      | Putnam.....     | 2          | 1         | 681,723                          | 3,873        | 1.32                               | 716,531             | 95.14   |
| 20      | Grundy.....     | 6          | 4         | 594,557                          | 2,398        | 1.15                               | 742,606             | 80.06   |
| 21      | Jackson.....    | 7          | 3         | 556,732                          | 44,941       | 1.08                               | 687,857             | 80.94   |
| 22      | Marshall.....   | 5          | 4         | 359,649                          | 37,738       | 0.70                               | 441,731             | 81.42   |
| 23      | Logan.....      | 4          | 2         | 312,491                          | 23,814       | 0.61                               | 429,555             | 72.75   |
| 24      | Mercer.....     | 3          | 2         | 299,205                          | 1,393        | 0.58                               | 318,070             | 94.07   |
| 25      | Bond.....       | 2          | 3         | 170,987                          | .....        | 0.33                               | 183,180             | 93.34   |
| 26      | Washington....  | 3          | 2         | 165,735                          | 2,055        | 0.32                               | 188,083             | 88.12   |
| 27      | Tazewell.....   | 5          | 4         | 161,393                          | 900          | 0.31                               | 209,802             | 76.93   |
| 28      | Will.....       | 2          | 2         | 158,423                          | .....        | 0.31                               | 174,443             | 90.82   |
| 29      | Woodford.....   | 2          | 2         | 155,582                          | 6,013        | 0.30                               | 183,896             | 84.60   |
| 30      | Menard.....     | 4          | 2         | 153,178                          | 1,981        | 0.30                               | 189,235             | 80.95   |
| 31      | Macon.....      | 5          | 4         | 116,273                          | .....        | 0.23                               | 271,626             | 42.86   |
| 32      | Shelby.....     | 2          | 2         | 90,630                           | .....        | 0.18                               | 114,835             | 78.92   |
| 33      | Gallatin.....   | 3          | 1         | 56,332                           | 4,615        | 0.11                               | 63,127              | 89.24   |
| 34      | Moultrie.....   | 1          | 1         | 44,921                           | .....        | 0.09                               | 54,162              | 82.94   |
| 35      | Henry.....      | 1          | 1         | 38,422                           | .....        | 0.07                               | 42,995              | 89.36   |
| 36      | White.....      | 1          | 1         | 19,936                           | 3,546        | 0.04                               | 31,744              | 62.80   |
| 37      | Rock Island.... | 1          | 1         | 11,135                           | .....        | 0.02                               | 13,040              | 85.39   |
| 38      | McLean.....     | 2          | 4         | 10,647                           | 23,304       | 0.02                               | 96,898              | 10.99   |
| 39      | Stark.....      | 1          | 1         | 10,056                           | .....        | 0.02                               | 13,326              | 75.46   |
| 40      | Livingston..... | 1          | 1         | 4,793                            | 16,356       | 0.01                               | 29,682              | 16.15   |
| 41      | Jefferson.....  | 1          | 3         | 3,122                            | .....        | 0.01                               | 7,958               | 39.23   |
|         | Peoria—By boat  | 1          | .....     | 33,744                           | .....        | 0.07                               | .....               | 3.29  |

## DAYS OF OPERATION.

Table 44 shows, by districts, the number of mines, men and days worked for all mines and for shipping and local mines. The shipping mines worked on an average of 172 days, which is three more than this class of mines were operated last year.

TABLE 44—*Days of active operation, by districts.*

| Districts.     | All mines. |        |       | Shipping mines. |        |       | Local mines. |       |       |
|----------------|------------|--------|-------|-----------------|--------|-------|--------------|-------|-------|
|                | Mines.     | Men.   | Days. | Mines.          | Men.   | Days. | Mines.       | Men.  | Days. |
| First.....     | 60         | 5,936  | 180   | 24              | 5,437  | 202   | 36           | 499   | 196   |
| Second.....    | 105        | 5,088  | 152   | 13              | 4,529  | 109   | 92           | 559   | 144   |
| Third.....     | 101        | 5,264  | 172   | 32              | 4,871  | 205   | 69           | 393   | 157   |
| Fourth.....    | 186        | 4,095  | 146   | 20              | 3,540  | 183   | 166          | 555   | 141   |
| Fifth.....     | 71         | 7,018  | 178   | 34              | 6,707  | 185   | 37           | 311   | 172   |
| Sixth.....     | 40         | 8,259  | 169   | 35              | 8,126  | 174   | 5            | 133   | 134   |
| Seventh.....   | 30         | 7,377  | 148   | 23              | 7,322  | 183   | 7            | 55    | 177   |
| Eighth.....    | 40         | 7,415  | 172   | 29              | 7,331  | 170   | 11           | 84    | 180   |
| Ninth.....     | 75         | 5,856  | 132   | 58              | 5,701  | 130   | 17           | 155   | 190   |
| Tenth.....     | 65         | 5,204  | 141   | 40              | 5,061  | 135   | 25           | 143   | 150   |
| Eleventh.....  | 57         | 9,377  | 179   | 38              | 9,321  | 194   | 19           | 56    | 148   |
| Twelfth.....   | 49         | 8,522  | 150   | 34              | 8,461  | 167   | 15           | 61    | 112   |
| The State..... | 879        | 79,411 | 160   | 380             | 76,407 | 172   | 499          | 3,004 | 152   |

Table 45 gives the record of the number of mines, men and days worked for thirteen years.

For all mines the number of days worked this year is less than for any year of the series.

TABLE 45—*Days of active operation, for a series of thirteen years.*

| Year.     | Mines, men and average days worked. |        |       |                 |        |       |              |       |       |
|-----------|-------------------------------------|--------|-------|-----------------|--------|-------|--------------|-------|-------|
|           | All mines.                          |        |       | Shipping mines. |        |       | Local mines. |       |       |
|           | Mines.                              | Men.   | Days. | Mines.          | Men.   | Days. | Mines.       | Men.  | Days. |
| 1900..... | 920                                 | 39,384 | 182.6 | 323             | 36,298 | 214.6 | 597          | 3,084 | 166.4 |
| 1901..... | 915                                 | 44,143 | 174.3 | 331             | 40,940 | 204.4 | 584          | 3,217 | 157.0 |
| 1902..... | 915                                 | 46,005 | 179.5 | 332             | 42,807 | 210.2 | 583          | 3,198 | 161.9 |
| 1903..... | 933                                 | 49,814 | 192.1 | 353             | 46,494 | 221.8 | 580          | 3,320 | 170.7 |
| 1904..... | 932                                 | 54,774 | 197.9 | 380             | 51,384 | 213.3 | 552          | 3,399 | 184.9 |
| 1905..... | 990                                 | 59,230 | 173.7 | 397             | 55,743 | 198.5 | 593          | 3,487 | 158.0 |
| 1906..... | 1,018                               | 62,283 | 172.0 | 419             | 58,851 | 189.6 | 559          | 3,432 | 160.3 |
| 1907..... | 933                                 | 66,714 | 184.1 | 411             | 63,154 | 209.3 | 522          | 3,500 | 164.2 |
| 1908..... | 922                                 | 70,841 | 171.4 | 407             | 67,470 | 190.6 | 515          | 3,371 | 161.0 |
| 1909..... | 886                                 | 72,733 | 168.4 | 384             | 69,518 | 188.6 | 502          | 3,215 | 154.8 |
| 1910..... | 881                                 | 74,634 | 170.6 | 390             | 71,520 | 179.1 | 491          | 3,114 | 164.5 |
| 1911..... | 845                                 | 77,410 | 165.4 | 387             | 74,508 | 169.2 | 458          | 2,902 | 162.2 |
| 1912..... | 879                                 | 79,411 | 160.0 | 330             | 76,407 | 172.0 | 499          | 3,004 | 152.0 |

## CLASSIFICATION OF EMPLOYEES.

Table 46 shows a classification of the employees of the shipping mines by districts. The number of boys employed in and about the mines is greatly increased over last year.

TABLE 46—*Classification of employees in shipping mines, by districts, with the employees of local mines.*

| Districts.       | All employees underground. |                  |       |        | Employees above ground. |                  |        | Grand total. |
|------------------|----------------------------|------------------|-------|--------|-------------------------|------------------|--------|--------------|
|                  | Miners.                    | Other employees. | Boys. | Total. | Boys.                   | Other employees. | Total. |              |
| First.....       | 3,978                      | 882              | 93    | 4,953  | 7                       | 477              | 484    | 5,437        |
| Second.....      | 3,270                      | 813              | 121   | 4,204  | .....                   | 325              | 325    | 4,529        |
| Third.....       | 3,364                      | 997              | 94    | 4,455  | 7                       | 409              | 416    | 4,871        |
| Fourth.....      | 2,207                      | 1,016            | 42    | 3,265  | 2                       | 273              | 275    | 3,540        |
| Fifth.....       | 4,128                      | 1,970            | 112   | 6,210  | 2                       | 495              | 497    | 6,707        |
| Sixth.....       | 5,152                      | 2,184            | 168   | 7,504  | 4                       | 618              | 622    | 8,126        |
| Seventh.....     | 2,004                      | 4,598            | 149   | 6,751  | 6                       | 565              | 571    | 7,322        |
| Eighth.....      | 2,389                      | 4,141            | 142   | 6,672  | 7                       | 652              | 659    | 7,331        |
| Ninth.....       | 2,490                      | 2,637            | 87    | 5,114  | 6                       | 481              | 487    | 5,701        |
| Tenth.....       | 2,475                      | 2,037            | 95    | 4,607  | 2                       | 452              | 454    | 5,061        |
| Eleventh.....    | 966                        | 7,309            | 159   | 8,434  | 13                      | 874              | 887    | 9,321        |
| Twelfth.....     | 4,422                      | 3,006            | 232   | 7,660  | 5                       | 796              | 801    | 8,461        |
| Total.....       | 36,845                     | 31,590           | 1,494 | 69,929 | 61                      | 6,417            | 6,478  | 76,407       |
| Local mines..... | 2,304                      | 97               | 32    | 2,433  | 14                      | 557              | 571    | 3,004        |
| The State.....   | 39,149                     | 31,687           | 1,526 | 72,362 | 75                      | 6,974            | 7,049  | 79,411       |



Table 47 gives the classification of employees each year for the last fourteen. The last line indicates the per cent of increase of 1912 over 1899.

TABLE 47—*Classification of employees in all mines for fourteen years.*

| Year.             | All employees underground. |                  |       |        | Above ground. |         |        | Grand total. |
|-------------------|----------------------------|------------------|-------|--------|---------------|---------|--------|--------------|
|                   | Miners.                    | Other employees. | Boys. | Total. | Boys.         | Others. | Total. |              |
| 1899.....         | 26,449                     | 5,455            | 1,295 | 33,199 | .....         | 3,792   | 3,792  | 36,991       |
| 1900.....         | 27,875                     | 6,047            | 1,281 | 35,203 | .....         | 4,181   | 4,181  | 39,384       |
| 1901.....         | 30,829                     | 7,595            | 1,326 | 39,750 | .....         | 4,393   | 4,393  | 44,143       |
| 1902.....         | 32,875                     | 7,273            | 1,397 | 41,518 | .....         | 4,487   | 4,487  | 46,005       |
| 1903.....         | 34,904                     | 8,526            | 1,276 | 44,703 | .....         | 5,111   | 5,111  | 49,814       |
| 1904.....         | 37,987                     | 9,812            | 1,562 | 49,361 | .....         | 5,413   | 5,413  | 54,774       |
| 1905.....         | 41,202                     | 10,694           | 1,540 | 53,436 | .....         | 5,794   | 5,794  | 59,230       |
| 1906.....         | 42,920                     | 11,605           | 1,499 | 56,024 | .....         | 6,259   | 6,259  | 62,283       |
| 1907.....         | 45,498                     | 13,026           | 1,595 | 60,119 | .....         | 6,596   | 6,596  | 66,714       |
| 1908.....         | 48,931                     | 13,929           | 1,564 | 64,424 | .....         | 6,417   | 6,417  | 70,841       |
| 1909.....         | 50,834                     | 13,788           | 1,752 | 66,374 | 71            | 6,288   | 6,359  | 72,733       |
| 1910.....         | 39,069                     | 28,137           | 1,154 | 68,360 | 47            | 6,227   | 6,274  | 74,634       |
| 1911.....         | 39,912                     | 30,052           | 1,009 | 70,973 | 71            | 6,366   | 6,437  | 77,410       |
| 1912.....         | 39,149                     | 31,687           | 1,526 | 72,362 | 75            | 6,974   | 7,049  | 79,411       |
| Per cent increase | 48.02                      | 499.2            | 17.7  | 118.0  | .....         | 83.9    | 85.9   | 114.7        |

Table 48 shows a classification by occupation of all the employees of the mines, the number of employed in each occupation and the total of tons produced

TABLE 48—*Classification of employees, and the total number of men operation during the year, and*

## GRUNDY COUNTY—

| Number.    | Name of operator.                     | Postoffice, address or location of mine. | Number of employees |          |           |          |              |
|------------|---------------------------------------|--|---------------------|----------|-----------|----------|--------------|
|            |                                       |  | Cagers.             | Drivers. | Laborers. | Loaders. | Machine-men. |
| 1          | Chi., W. & V. Coal Co., No. 1.....    | So. Wilmington..                         | 3                   | 33       | 18        | .....    | .....        |
| 2          | Big Four Wilmington C. Co.....        | Coal City.....                           | 3                   | 19       | 14        | .....    | .....        |
| 3          | Chi., W. & V. Coal Co., No. 3.....    | So. Wilmington..                         | 2                   | 14       | 11        | .....    | .....        |
| 4          | Wilmington Star Coal Co.....          | Coal City.....                           | 2                   | 16       | .....     | .....    | .....        |
| 5          | Big Four Wilmington Coal Co., No. 5.. | Carbon Hill.....                         | 4                   | 14       | .....     | .....    | .....        |
| 6          | Wilmington Star Coal Co., No. 6.....  | Coal City.....                           | 2                   | 10       | .....     | .....    | .....        |
| Total..... |                                       |  | 16                  | 106      | 43        | .....    | .....        |

## LA SALLE COUNTY—

|            |                                      |                 |       |     |       |       |       |
|------------|--------------------------------------|-----------------|-------|-----|-------|-------|-------|
| 1          | Oglesby Coal Co.....                 | Oglesby.....    | 5     | 33  | 30    | ..... | ..... |
| 2          | LaSalle Co. C. C. Co., No. 6.....    | LaSalle.....    | 3     | 17  | 48    | 2     | ..... |
| 3          | LaSalle Co. C. C. Co., No. 5.....    | ..do.....       | 3     | 29  | 31    | 6     | ..... |
| 4          | LaSalle Co. C. C. Co., LaSalle.....  | ..do.....       | 2     | 34  | 37    | 5     | ..... |
| 5          | Chi., W. & V. Coal Co., No. 3.....   | Streator.....   | 2     | 25  | 10    | ..... | ..... |
| 6          | Chi., W. & V. Coal Co., No. 2.....   | ..do.....       | 3     | 24  | 20    | ..... | ..... |
| 7          | LaSalle Co. C. C. Co., Union.....    | LaSalle.....    | 2     | 20  | 30    | 4     | ..... |
| 8          | Illinois Zine Co.....                | Peru.....       | ..... | 21  | 27    | ..... | ..... |
| 9          | Harrison Coal Co.....                | Streator.....   | 2     | 10  | 1     | ..... | ..... |
| 10         | Acme Coal Co.....                    | ..do.....       | 3     | 7   | 4     | ..... | ..... |
| 11         | Cahill Coal Co.....                  | Peru.....       | 2     | 16  | 15    | ..... | ..... |
| 12         | Rutland Coal Co.....                 | Rutland.....    | 1     | 8   | 4     | ..... | ..... |
| 13         | LaSalle Co. C. C. Co., Rockwell..... | LaSalle.....    | 2     | 10  | 45    | 4     | ..... |
| 14         | Spicer Coal Co.....                  | Marseilles..... | 1     | 1   | 2     | ..... | ..... |
| 15         | Wilfred Coal Co.....                 | Seneea.....     | 1     | 1   | ..... | ..... | ..... |
| Total..... |                                      |                 | 32    | 256 | 304   | 21    | ..... |

## LIVINGSTON COUNTY—

|   |                       |               |   |   |   |       |       |
|---|-----------------------|---------------|---|---|---|-------|-------|
| 1 | Fairbury Coal Co..... | Fairbury..... | 1 | 2 | 4 | ..... | ..... |
|---|-----------------------|---------------|---|---|---|-------|-------|

## WILL COUNTY—

|                           |                                     |                |    |     |     |       |       |
|---------------------------|-------------------------------------|----------------|----|-----|-----|-------|-------|
| 1                         | Wilm. Coal Mining & Mfg. Co.....    | Torino.....    | 2  | 15  | 5   | ..... | ..... |
| 2                         | Murphy, Linskey & Kasher C. Co..... | Braidwood..... | 2  | 8   | 10  | ..... | ..... |
| Total.....                |                                     |                | 4  | 23  | 15  | ..... | ..... |
| Total First District..... |                                     |                | 53 | 387 | 366 | 22    | ..... |

the shipping mines and gives the names of the operator, the location number. The number of days each mine was operated and the number is also shown.

*employed in shipping mines, with the number of days each mine was in the total tons produced—1912.*

## FIRST DISTRICT.

| in each occupation. |                 |                |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| 291                 | 3               | 28             | .....          | 376                       | 11                           | 387                                     | 194                                | 177,995                      | 1       |
| 320                 | 10              | 4              | 4              | 374                       | 31                           | 405                                     | 223                                | 168,337                      | 2       |
| 251                 | 3               | 13             | 2              | 296                       | 11                           | 307                                     | 194                                | 159,805                      | 3       |
| 137                 | .....           | 2              | 1              | 158                       | 42                           | 200                                     | 228                                | 86,907                       | 4       |
| 163                 | 6               | 3              | .....          | 190                       | 23                           | 213                                     | 201                                | 78,947                       | 5       |
| 104                 | .....           | 2              | .....          | 118                       | 31                           | 149                                     | 228                                | 70,615                       | 6       |
| 1,266               | 22              | 52             | 7              | 1,512                     | 149                          | 1,661                                   | 211                                | 742,606                      |         |

## FIRST DISTRICT.

|       |       |       |       |       |       |       |     |           |    |
|-------|-------|-------|-------|-------|-------|-------|-----|-----------|----|
| 301   | 2     | 4     | 1     | 376   | 67    | 443   | 233 | 205,737   | 1  |
| 322   | 3     | 2     | 5     | 402   | 38    | 440   | 220 | 205,374   | 2  |
| 303   | 3     | 3     | 6     | 384   | ..... | 384   | 206 | 168,396   | 3  |
| 265   | 2     | 2     | 3     | 350   | ..... | 350   | 230 | 145,279   | 4  |
| 153   | 5     | 6     | 4     | 205   | 10    | 215   | 256 | 140,802   | 5  |
| 182   | 3     | 4     | 3     | 239   | 20    | 259   | 200 | 122,978   | 6  |
| 177   | 2     | 3     | 2     | 240   | ..... | 240   | 194 | 99,036    | 7  |
| 104   | 5     | 2     | 7     | 166   | 24    | 190   | 267 | 75,585    | 8  |
| 120   | 1     | 1     | ..... | 135   | 15    | 150   | 232 | 74,668    | 9  |
| 75    | 1     | 2     | 2     | 94    | 16    | 110   | 184 | 56,314    | 10 |
| 95    | 3     | 1     | 1     | 133   | 10    | 143   | 216 | 49,270    | 11 |
| 73    | ..... | 1     | 1     | 88    | 15    | 103   | 222 | 40,666    | 12 |
| 143   | 1     | 1     | ..... | 206   | 13    | 219   | 21  | 9,687     | 13 |
| 28    | ..... | ..... | ..... | 32    | 8     | 40    | 145 | 8,869     | 14 |
| 16    | ..... | ..... | ..... | 18    | 15    | 33    | 104 | 1,938     | 15 |
| 2,357 | 31    | 32    | 35    | 3,068 | 251   | 3,319 | 197 | 1,404,599 |    |

## FIRST DISTRICT.

|    |   |       |       |    |   |    |     |        |   |
|----|---|-------|-------|----|---|----|-----|--------|---|
| 30 | 2 | ..... | ..... | 39 | 6 | 45 | 216 | 29,682 | 1 |
|----|---|-------|-------|----|---|----|-----|--------|---|

## FIRST DISTRICT.

|       |    |    |    |       |     |       |     |           |   |
|-------|----|----|----|-------|-----|-------|-----|-----------|---|
| 195   | 5  | 2  | 1  | 225   | 25  | 250   | 219 | 102,662   | 1 |
| 130   | 7  | 2  | 1  | 160   | 2   | 162   | 218 | 71,781    | 2 |
| 325   | 12 | 4  | 2  | 385   | 27  | 412   | 219 | 174,443   |   |
| 3,977 | 67 | 88 | 44 | 5,004 | 433 | 5,437 | 202 | 2,351,330 |   |

Table 48—

## BUREAU COUNTY—

| Number.    | Name of operator.                      | Postoffice address or location of mine. | Number of employees |          |           |          |             |
|------------|--|---|---------------------|----------|-----------|----------|-------------|
|            |  |   | Cagers.             | Drivers. | Laborers. | Loaders. | Machinemen. |
| 1          | Spring Valley Coal Co., No. 5.....     | Dalzell.....                            | 4                   | 44       | 48        | .....    | .....       |
| 2          | Spring Valley Coal Co., No. 3.....     | Spring Valley....                       | 2                   | 38       | 43        | .....    | .....       |
| 3          | Spring Valley Coal Co., No. 1.....     | do.....                                 | 2                   | 37       | 52        | .....    | .....       |
| 4          | Illinois 3d Vein Coal Co., No. 1.....  | Ladd.....                               | 3                   | 36       | 70        | .....    | .....       |
| 5          | St. Paul Coal Co., No. 2.....          | Cherry.....                             | 3                   | 14       | 54        | .....    | .....       |
| 6          | Spring Valley Coal Co., No. 4.....     | Seatonville.....                        | 5                   | 34       | 52        | .....    | .....       |
| 7          | Marquette 3d Vein Coal Co., No. 1..... | Marquette.....                          | 4                   | 30       | 26        | .....    | .....       |
| Total..... |  |   | 23                  | 233      | 345       | .....    | .....       |

## HENRY COUNTY—

|   |                      |              |   |   |       |       |       |
|---|----------------------|--------------|---|---|-------|-------|-------|
| 1 | Kewanee Coal Co..... | Kewanee..... | 2 | 8 | ..... | ..... | ..... |
|---|----------------------|--------------|---|---|-------|-------|-------|

## MERCER COUNTY—

|            |                                    |                   |    |    |    |       |       |
|------------|------------------------------------|-------------------|----|----|----|-------|-------|
| 1          | Coal Valley Mining Co., No. 2..... | Sherrard.....     | 3  | 18 | 18 | ..... | ..... |
| 2          | Coal Valley Mining Co., No. 3..... | Mathersville..... | 4  | 15 | 2  | ..... | ..... |
| 3          | Alden Coal Co., No. 7.....         | do.....           | 4  | 12 | 14 | ..... | ..... |
| Total..... |                                    |                   | 11 | 45 | 34 | ..... | ..... |

## ROCK ISLAND COUNTY—

|   |                               |                  |       |   |   |       |   |
|---|-------------------------------|------------------|-------|---|---|-------|---|
| 1 | Central Illinois Fuel Co..... | Coal Valley..... | ..... | 3 | 1 | ..... | 4 |
|---|-------------------------------|------------------|-------|---|---|-------|---|

## STARK COUNTY—

|                            |                        |              |    |     |       |       |       |
|----------------------------|------------------------|--------------|----|-----|-------|-------|-------|
| 1                          | Wyoming Mining Co..... | Wyoming..... | 1  | 2   | ..... | ..... | ..... |
| Total Second District..... |                        |              | 37 | 291 | 370   | ..... | 4     |

## MARSHALL COUNTY—

|            |                                      |               |       |    |       |       |       |
|------------|--------------------------------------|---------------|-------|----|-------|-------|-------|
| 1          | Toluca Coal Co.....                  | Toluca.....   | 6     | 38 | ..... | ..... | ..... |
| 2          | Wenona Coal Co.....                  | Wenona.....   | 3     | 17 | 38    | ..... | ..... |
| 3          | Illinois Valley Coal Co., No. 1..... | Sparland..... | ..... | 5  | 5     | ..... | ..... |
| 4          | Illinois Valley Coal Co., No. 2..... | do.....       | ..... | 3  | 3     | 15    | 10    |
| 5          | Fulton Co. Coal Co.....              | do.....       | 1     | 3  | ..... | ..... | ..... |
| Total..... |                                      |               | 10    | 66 | 46    | 15    | 10    |

Continued.

## SECOND DISTRICT.

| in each occupation. |                 |               |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|---------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| 518                 | 8               | 4             | 14             | 640                       | 45                           | 685                                     | 223                                | 316,788                      | 1       |
| 486                 | 4               | 4             | 16             | 593                       | 61                           | 654                                     | 196                                | 259,021                      | 2       |
| 543                 | 4               | 4             | 17             | 659                       | 47                           | 706                                     | 206                                | 252,853                      | 3       |
| 395                 | 8               | 4             | 19             | 535                       | 35                           | 570                                     | 235                                | 238,549                      | 4       |
| 302                 | 6               | 2             | 2              | 383                       | 19                           | 402                                     | 277                                | 228,369                      | 5       |
| 374                 | 3               | 3             | 12             | 483                       | 41                           | 524                                     | 232                                | 220,037                      | 6       |
| 260                 | 4               | 3             | 8              | 335                       | 25                           | 360                                     | 210                                | 148,475                      | 7       |
| 2,878               | 37              | 24            | 88             | 3,628                     | 273                          | 3,901                                   | 226                                | 1,664,092                    |         |

## SECOND DISTRICT.

|    |   |   |       |    |    |    |     |        |   |
|----|---|---|-------|----|----|----|-----|--------|---|
| 65 | 2 | 1 | ..... | 68 | 17 | 95 | 179 | 42,995 | 1 |
|----|---|---|-------|----|----|----|-----|--------|---|

## SECOND DISTRICT.

|     |   |   |       |     |    |     |     |         |   |
|-----|---|---|-------|-----|----|-----|-----|---------|---|
| 92  | 2 | 3 | ..... | 136 | 39 | 175 | 189 | 111,800 | 1 |
| 89  | 1 | 3 | ..... | 115 | 27 | 142 | 157 | 105,617 | 2 |
| 104 | 2 | 3 | ..... | 142 | 12 | 154 | 163 | 100,653 | 3 |
| 285 | 5 | 9 | ..... | 393 | 78 | 471 | 170 | 318,070 |   |

## SECOND DISTRICT.

|    |       |   |       |    |   |    |     |        |   |
|----|-------|---|-------|----|---|----|-----|--------|---|
| 15 | ..... | 1 | ..... | 24 | 5 | 29 | 233 | 13,040 | 1 |
|----|-------|---|-------|----|---|----|-----|--------|---|

## SECOND DISTRICT.

|       |    |       |       |       |     |       |     |           |   |
|-------|----|-------|-------|-------|-----|-------|-----|-----------|---|
| 27    | 1  | ..... | ..... | 31    | 2   | 33    | 219 | 13,326    | 1 |
| 3,270 | 45 | 35    | 92    | 4,144 | 385 | 4,529 | 109 | 2,051,523 |   |

## THIRD DISTRICT.

|     |    |    |       |     |     |       |     |         |   |
|-----|----|----|-------|-----|-----|-------|-----|---------|---|
| 448 | 5  | 7  | 14    | 518 | 135 | 653   | 266 | 257,473 | 1 |
| 180 | 2  | 2  | 1     | 243 | 7   | 250   | 232 | 121,106 | 2 |
| 40  | 1  | 1  | ..... | 52  | 5   | 57    | 197 | 37,615  | 3 |
| 4   | 1  | 1  | ..... | 37  | 5   | 42    | 211 | 16,653  | 4 |
| 25  | 1  | 1  | ..... | 31  | 5   | 36    | 185 | 8,884   | 5 |
| 697 | 10 | 12 | 15    | 881 | 157 | 1,038 | 218 | 441,731 |   |

Table 48—

## MENARD COUNTY—

| Number. | Name of operator.          | Postoffice address or location of mine. | Number of employees |          |           |          |             |
|---------|----------------------------|---|---------------------|----------|-----------|----------|-------------|
|         |                            |   | Cagers.             | Drivers. | Laborers. | Loaders. | Machinemen. |
| 1       | Wabash Coal Co. ....       | Athens. ....                            | 2                   | 13       | 2         | .....    | .....       |
| 2       | Tallula Coal Co. ....      | Tallula. ....                           | 1                   | 6        | 1         | .....    | .....       |
| 3       | So. Mountain Coal Co. .... | Petersburg. ....                        | 2                   | 6        | .....     | .....    | .....       |
| 4       | Greenview Mining Co. ....  | Greenview. ....                         | 1                   | 4        | 1         | .....    | .....       |
|         | Total. ....                | .....                                   | 6                   | 29       | 4         | .....    | .....       |

## PEORIA COUNTY—

|    |                                     |                      |       |    |       |       |       |
|----|-------------------------------------|----------------------|-------|----|-------|-------|-------|
| 1  | Clark Coal & Coke Co. ....          | Peoria. ....         | 4     | 15 | 49    | ..... | ..... |
| 2  | Crescent Coal Co. ....              | do. ....             | ..... | 10 | ..... | ..... | ..... |
| 3  | Deming & Cruikshank. ....           | S. Bartonville. .... | 2     | 8  | 4     | ..... | 8     |
| 4  | Newsam Bros. ....                   | Kingston Mines. .... | 1     | 8  | 10    | ..... | ..... |
| 5  | Wolschlog Cooperative C. Co. ....   | Peoria. ....         | ..... | 4  | 6     | 4     | ..... |
| 6  | Applegate & Lewis Coal Co. ....     | Hanna City. ....     | 1     | 7  | 11    | 49    | 8     |
| 7  | Brewster & Evans Co. ....           | Peoria. ....         | 1     | 6  | 6     | ..... | ..... |
| 8  | Olympia Coal Mining Co. ....        | Edwards. ....        | ..... | 6  | ..... | ..... | ..... |
| 9  | Collier Cooperative Coal Co. ....   | Bartonville. ....    | 1     | 4  | 5     | ..... | ..... |
| 10 | Mapleton Coal Co. ....              | Mapleton. ....       | ..... | 6  | ..... | ..... | ..... |
| 11 | Warsaw Coal Co. ....                | Edwards. ....        | ..... | 3  | 5     | ..... | ..... |
| 12 | Lancaster Ldg. C. & Trans. Co. .... | Kingston Mines. .... | ..... | 6  | 6     | ..... | ..... |
| 13 | Isaac Wanthing & Co. ....           | Peoria. ....         | ..... | 4  | ..... | ..... | ..... |
| 14 | German Coal Co. ....                | Mapleton. ....       | ..... | 1  | ..... | ..... | 2     |
|    | Total. ....                         | .....                | 10    | 88 | 102   | 53    | 18    |

## PUTNAM COUNTY—

|   |                           |                 |   |    |       |       |       |
|---|---------------------------|-----------------|---|----|-------|-------|-------|
| 1 | St. Paul Coal Co. ....    | Granville. .... | 2 | 3  | 50    | ..... | ..... |
| 2 | B. F. Berry Coal Co. .... | Taft. ....      | 3 | 35 | ..... | ..... | ..... |
|   | Total. ....               | .....           | 5 | 38 | 50    | ..... | ..... |

## TAZEWELL COUNTY—

|   |                        |              |   |    |       |       |       |
|---|------------------------|--------------|---|----|-------|-------|-------|
| 1 | Tazewell Coal Co. .... | Pekin. ....  | 2 | 13 | ..... | 90    | 20    |
| 2 | Eastern Coal Co. ....  | Peoria. .... | 1 | 4  | 4     | ..... | ..... |
| 3 | Ubben Coal Co. ....    | Pekin. ....  | 1 | 3  | 2     | ..... | ..... |
| 4 | Champion Coal Co. .... | do. ....     | 1 | 2  | 1     | ..... | ..... |
| 5 | Chas. J. Off. ....     | Peoria. .... | 1 | 5  | 6     | ..... | ..... |
|   | Total. ....            | .....        | 6 | 27 | 13    | 90    | 20    |

## WOODFORD COUNTY—

|   |                            |               |    |     |       |       |       |
|---|----------------------------|---------------|----|-----|-------|-------|-------|
| 1 | Roanoke Coal Co. ....      | Roanoke. .... | 2  | 18  | 24    | ..... | ..... |
| 2 | Minonk Coal Co. ....       | Minonk. ....  | 3  | 16  | ..... | ..... | ..... |
|   | Total. ....                | .....         | 6  | 34  | 24    | ..... | ..... |
|   | Total Third District. .... | .....         | 43 | 282 | 239   | 158   | 48    |

Continued.

## THIRD DISTRICT.

| in each occupation. |                 |                |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| 85                  | 8               | 6              | 2              | 118                       | 12                           | 130                                     | 140                                | 68,551                       | 1       |
| 47                  | 2               | 1              | 1              | 59                        | 9                            | 68                                      | 200                                | 47,712                       | 2       |
| 58                  | 4               | 2              | 1              | 73                        | 13                           | 86                                      | 164                                | 38,959                       | 3       |
| 32                  | 2               | 2              | .....          | 42                        | 3                            | 45                                      | 252                                | 34,022                       | 4       |
| 222                 | 16              | 11             | 4              | 292                       | 37                           | 329                                     | 189                                | 189,235                      |         |

## THIRD DISTRICT.

|       |       |       |       |       |       |       |     |           |    |
|-------|-------|-------|-------|-------|-------|-------|-----|-----------|----|
| 199   | 3     | 8     | 2     | 280   | ..... | 280   | 228 | 253,414   | 1  |
| 190   | 2     | 4     | 2     | 208   | 40    | 248   | 215 | 180,325   | 2  |
| 85    | 3     | 3     | 3     | 116   | 19    | 135   | 230 | 109,648   | 3  |
| 93    | 4     | 2     | ..... | 118   | 10    | 128   | 246 | 108,233   | 4  |
| 64    | ..... | 2     | 2     | 82    | 9     | 91    | 225 | 87,841    | 5  |
| ..... | 4     | 4     | 1     | 85    | 6     | 91    | 197 | 51,503    | 6  |
| 42    | 1     | 1     | 1     | 58    | 13    | 71    | 184 | 49,946    | 7  |
| 67    | 2     | 2     | 1     | 78    | 9     | 87    | 185 | 42,900    | 8  |
| 30    | 1     | ..... | 1     | 42    | ..... | 42    | 197 | 38,220    | 9  |
| 50    | 1     | 1     | ..... | 58    | ..... | 58    | 143 | 24,221    | 10 |
| 28    | ..... | 1     | ..... | 37    | 5     | 42    | 180 | 22,312    | 11 |
| 30    | ..... | 2     | ..... | 44    | 3     | 47    | 221 | 21,402    | 12 |
| 35    | 1     | 1     | ..... | 41    | 6     | 47    | 194 | 20,972    | 13 |
| 14    | ..... | 1     | ..... | 18    | 1     | 19    | 226 | 15,214    | 14 |
| 927   | 22    | 32    | 13    | 1,265 | 121   | 1,386 | 205 | 1,026,151 |    |

## THIRD DISTRICT.

|       |   |   |    |       |     |       |     |         |   |
|-------|---|---|----|-------|-----|-------|-----|---------|---|
| 617   | 6 | 5 | 3  | 686   | 88  | 774   | 258 | 413,625 | 1 |
| 445   | 2 | 2 | 8  | 495   | 85  | 580   | 229 | 302,906 | 2 |
| 1,062 | 8 | 7 | 11 | 1,181 | 173 | 1,354 | 244 | 715,531 |   |

## THIRD DISTRICT.

|       |       |       |       |     |       |     |     |         |   |
|-------|-------|-------|-------|-----|-------|-----|-----|---------|---|
| ..... | 3     | 3     | 1     | 132 | 23    | 155 | 250 | 126,206 | 1 |
| 41    | 1     | 1     | ..... | 52  | ..... | 52  | 231 | 34,912  | 2 |
| 35    | 1     | 1     | 1     | 44  | 2     | 46  | 205 | 26,930  | 3 |
| 23    | ..... | ..... | ..... | 27  | 2     | 29  | 189 | 14,000  | 4 |
| 40    | 1     | 1     | ..... | 54  | 5     | 59  | 52  | 7,754   | 5 |
| 139   | 6     | 6     | 2     | 309 | 32    | 341 | 185 | 209,802 |   |

## THIRD DISTRICT.

|       |    |    |    |       |     |       |     |           |   |
|-------|----|----|----|-------|-----|-------|-----|-----------|---|
| 203   | 2  | 2  | 7  | 258   | 8   | 266   | 252 | 122,552   | 1 |
| 114   | 2  | 2  | 3  | 141   | 16  | 157   | 173 | 61,344    | 2 |
| 317   | 4  | 4  | 10 | 399   | 24  | 423   | 212 | 183,896   |   |
| 3,364 | 66 | 72 | 55 | 4,327 | 544 | 4,871 | 205 | 2,767,346 |   |

Table 48—

## FULTON COUNTY—

| Number.                    | Name of operator.                   | Postoffice.<br>address or<br>location of mine. | Number of employees |               |                |               |                       |
|----------------------------|-------------------------------------|--|---------------------|---------------|----------------|---------------|-----------------------|
|                            |                                     |  | Cagers.             | Driv-<br>ers. | Labor-<br>ers. | Load-<br>ers. | Ma-<br>chine-<br>men. |
| 1                          | Maplewood Colliery Co., No. 2 ..... | Farmington.....                                | 8                   | 28            | 25             |               |                       |
| 2                          | Big Creek Coal Co., No. 2 .....     | St. David.....                                 | 20                  | 20            | 14             | 152           | 24                    |
| 3                          | Monmouth Coal Co. ....              | Brereton.....                                  | 3                   | 25            | 19             |               |                       |
| 4                          | Big Creek Coal Co., No. 4.....      | Dunfermline.....                               | 2                   | 20            | 10             | 130           | 16                    |
| 5                          | Alden Coal Co., No. 6.....          | Norris.....                                    | 2                   | 17            | 17             |               |                       |
| 6                          | Canton Coal Mining Co.....          | Canton.....                                    | 3                   | 15            |                |               |                       |
| 7                          | Norris Coal Mining Co.....          | Norris.....                                    | 4                   | 18            | 26             |               |                       |
| 8                          | Eagle Mining Co.....                | Canton.....                                    | 2                   | 10            | 5              |               |                       |
| 9                          | Simmons Coal Co.....                | do.....  | 2                   | 19            | 10             |               |                       |
| 10                         | Star Coal Co., No. 1.....           | Cuba.....                                      | 12                  |               |                |               |                       |
| 11                         | Maplewood Coal Co., No. 1.....      | Farmington.....                                | 4                   | 9             | 8              |               |                       |
| 12                         | Alden Coal Co., No. 5.....          | do.....  | 3                   | 11            | 11             |               |                       |
| 13                         | National Coal Mining Co.....        | do.....  | 2                   | 11            | 1              |               |                       |
| 14                         | Star Coal Co., No. 3.....           | Cuba.....                                      | 2                   | 7             | 2              |               |                       |
| 15                         | Star Coal Co., No. 2.....           | do.....  | 6                   | 4             | 4              |               |                       |
| 16                         | Silver Creek Colliery Co.....       | Farmington.....                                | 2                   | 5             | 1              | 16            | 4                     |
| 17                         | Star Coal Co., No. 1.....           | Fiatt.....                                     | 1                   | 8             | 5              |               |                       |
| 18                         | Spoon River Coal Co.....            | Mayton.....                                    | 1                   | 8             | 2              |               |                       |
| 19                         | Coal Creek Mining Co.....           | Fairview.....                                  | 2                   | 2             |                |               |                       |
| 20                         | Big Creek Coal Co., No. 3.....      | Cuba.....                                      | 1                   | 7             | 3              |               |                       |
| Total.....                 |                                     |  | 42                  | 258           | 163            | 298           | 44                    |
| Total Fourth District..... |                                     |  | 42                  | 258           | 163            | 298           | 44                    |

## CHRISTIAN COUNTY—

|            |                                  |                  |    |     |     |  |    |
|------------|----------------------------------|------------------|----|-----|-----|--|----|
| 1          | Christian Co. Coal Co.....       | Taylorville..... | 2  | 34  |     |  |    |
| 2          | Springfield Coal Co., No. 6..... | do.....          | 1  | 19  | 29  |  |    |
| 3          | Penwell Coal Mining Co.....      | Pana.....        | 2  | 13  | 29  |  |    |
| 4          | Pana Coal Co., No. 1.....        | do.....          | 2  | 12  | 10  |  |    |
| 5          | Stonington Coal Co.....          | Stonington.....  | 4  | 31  |     |  | 28 |
| 6          | Smith-Lohr Coal Mining Co.....   | Pana.....        | 2  | 10  | 24  |  |    |
| 7          | Assumption Coal Mining Co.....   | Assumption.....  | 2  | 8   | 27  |  |    |
| 8          | Pana Coal Co., No. 2.....        | Pana.....        | 2  | 8   | 8   |  |    |
| Total..... |                                  |                  | 17 | 135 | 127 |  | 28 |

## MACON COUNTY—

|            |  |              |   |    |    |  |  |
|------------|--|--------------|---|----|----|--|--|
| 1          | Manufacturers & Consumers Coal Co..... | Decatur..... | 2 | 12 | 23 |  |  |
| 2          | Decatur Coal Co., No. 2.....           | do.....      | 2 | 8  | 14 |  |  |
| 3          | Blue Mound Coal Co.....                | do.....      | 2 | 6  | 2  |  |  |
| 4          | Decatur Coal Co., Niantic.....         | do.....      | 1 | 6  | 2  |  |  |
| 5          | Decatur Coal Co., No. 1.....           | do.....      | 2 | 5  | 7  |  |  |
| Total..... |  |              | 9 | 37 | 48 |  |  |

## MOULTRIE COUNTY—

|   |                               |                |   |   |   |  |  |
|---|-------------------------------|----------------|---|---|---|--|--|
| 1 | Lovington Coal Mining Co..... | Lovington..... | 1 | 5 | 1 |  |  |
|---|-------------------------------|----------------|---|---|---|--|--|



Continued.

## FOURTH DISTRICT.

| in each occupation. |                 |                |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| 250                 | 6               | 8              | 5              | 330                       | 40                           | 370                                     | 217                                | 303,500                      | 1       |
| 90                  | 6               | 6              | 8              | 320                       | 41                           | 361                                     | 230                                | 271,729                      | 2       |
| 200                 | 7               | 9              | 8              | 271                       | 21                           | 292                                     | 171                                | 206,430                      | 3       |
| 41                  | 4               | 4              | 6              | 233                       | 25                           | 258                                     | 195                                | 190,460                      | 4       |
| 160                 | 2               | 7              | 2              | 207                       | 28                           | 235                                     | 184                                | 166,179                      | 5       |
| 140                 | 4               | 4              | 4              | 170                       | 23                           | 193                                     | 226                                | 158,817                      | 6       |
| 180                 | 4               | 4              | 4              | 240                       | 18                           | 258                                     | 186                                | 156,331                      | 7       |
| 120                 | 3               | 2              | 3              | 145                       | 15                           | 160                                     | 232                                | 132,360                      | 8       |
| 110                 | 4               | 4              | -----          | 149                       | 13                           | 162                                     | 205                                | 126,463                      | 9       |
| 160                 | 2               | 5              | 3              | 182                       | 10                           | 192                                     | 194                                | 101,595                      | 10      |
| 105                 | 4               | 4              | 3              | 137                       | 15                           | 152                                     | 199                                | 85,980                       | 11      |
| 115                 | 2               | 6              | 2              | 150                       | 17                           | 167                                     | 168                                | 84,829                       | 12      |
| 91                  | -----           | 2              | 1              | 108                       | 11                           | 119                                     | 193                                | 73,471                       | 13      |
| 85                  | 2               | 5              | 1              | 104                       | 6                            | 110                                     | 174                                | 69,109                       | 14      |
| 70                  | -----           | 3              | 2              | 85                        | 5                            | 90                                      | 146                                | 68,558                       | 15      |
| 108                 | 2               | 3              | -----          | 141                       | 11                           | 152                                     | 220                                | 48,335                       | 16      |
| 80                  | -----           | 4              | 2              | 100                       | 10                           | 110                                     | 106                                | 39,113                       | 17      |
| 40                  | -----           | 1              | 1              | 53                        | 6                            | 59                                      | 169                                | 27,444                       | 18      |
| 17                  | -----           | 1              | -----          | 20                        | 2                            | 22                                      | 200                                | 13,071                       | 19      |
| 45                  | 1               | 2              | 1              | 60                        | 18                           | 78                                      | 42                                 | 9,984                        | 20      |
| 2,207               | 53              | 84             | 56             | 3,205                     | 335                          | 3,540                                   | 183                                | 2,333,758                    |         |
| 2,207               | 53              | 84             | 56             | 3,205                     | 335                          | 3,540                                   | 183                                | 2,333,758                    |         |

## FIFTH DISTRICT.

|       |    |    |    |       |       |       |     |           |   |
|-------|----|----|----|-------|-------|-------|-----|-----------|---|
| 280   | 4  | 9  | 8  | 337   | 56    | 393   | 153 | 302,278   | 1 |
| 221   | 6  | 8  | 7  | 291   | 16    | 307   | 183 | 235,220   | 2 |
| 185   | 5  | 2  | 4  | 240   | 20    | 260   | 149 | 190,104   | 3 |
| 196   | 2  | 2  | 8  | 232   | 25    | 257   | 167 | 185,588   | 4 |
| 130   | 3  | 6  | 9  | 211   | 15    | 226   | 128 | 175,516   | 5 |
| 184   | 4  | 4  | 4  | 232   | 8     | 240   | 116 | 134,885   | 6 |
| 111   | 3  | 2  | 5  | 158   | ----- | 158   | 199 | 75,265    | 7 |
| 166   | 2  | 2  | 5  | 193   | 24    | 217   | 53  | 41,647    | 8 |
| 1,473 | 29 | 35 | 50 | 1,894 | 164   | 2,058 | 144 | 1,340,503 |   |

## FIFTH DISTRICT.

|     |       |    |       |     |    |     |     |         |   |
|-----|-------|----|-------|-----|----|-----|-----|---------|---|
| 179 | 1     | 3  | 2     | 222 | 22 | 244 | 229 | 117,573 | 1 |
| 100 | 4     | 5  | 1     | 134 | 8  | 142 | 184 | 53,904  | 2 |
| 56  | 2     | 2  | ----- | 70  | 6  | 76  | 140 | 42,441  | 3 |
| 44  | ----- | 2  | 1     | 56  | 5  | 61  | 138 | 39,742  | 4 |
| 48  | ----- | 3  | 1     | 66  | 8  | 74  | 138 | 17,966  | 5 |
| 427 | 7     | 15 | 5     | 548 | 49 | 597 | 166 | 271,626 |   |

## FIFTH DISTRICT.

|    |       |   |       |    |    |    |     |        |   |
|----|-------|---|-------|----|----|----|-----|--------|---|
| 48 | ----- | 1 | ----- | 56 | 12 | 68 | 229 | 54,162 | 1 |
|----|-------|---|-------|----|----|----|-----|--------|---|

Table 48—

## SHELBY COUNTY—

| Number.    | Name of operator.             | Postoffice address or location of mine. | Number of employees |          |           |          |              |
|------------|-------------------------------|---|---------------------|----------|-----------|----------|--------------|
|            |                               |   | Cagers.             | Drivers. | Laborers. | Loaders. | Machine-men. |
| 1          | Century Coal Co.....          | Tower Hill.....                         | 2                   | 8        | 16        | .....    | .....        |
| 2          | Moweaqua C. M. & Mfg. Co..... | Moweaqua.....                           | 2                   | 7        | 17        | .....    | 14           |
| Total..... |                               |   | 4                   | 15       | 33        | .....    | 14           |

## VERMILION COUNTY—

|                           |                                   |                 |       |       |       |       |       |
|---------------------------|-----------------------------------|-----------------|-------|-------|-------|-------|-------|
| 1                         | Bunsen Coal Co., Ver.....         | Westville.....  | 3     | 30    | 139   | 151   | 21    |
| 2                         | Bunsen Coal Co., No. 4.....       | do.....         | 3     | 31    | 108   | ..... | ..... |
| 3                         | Dering Coal Co., No. 2.....       | do.....         | 2     | 20    | 70    | ..... | ..... |
| 4                         | Bunsen Coal Co., No. 2.....       | do.....         | 3     | 17    | 65    | 67    | 10    |
| 5                         | Dering Coal Co., No. 3.....       | Steelton.....   | 2     | 18    | 70    | ..... | ..... |
| 6                         | Bunsen Coal Co., No. 3.....       | Westville.....  | 3     | 15    | 46    | 101   | 16    |
| 7                         | Dering Coal Co., No. 4.....       | Steelton.....   | 2     | 19    | 35    | ..... | ..... |
| 8                         | Electric Coal Co.....             | Danville.....   | 3     | 6     | ..... | ..... | ..... |
| 9                         | Danville Col. Co.....             | Catlin.....     | 2     | 11    | 12    | ..... | ..... |
| 10                        | Tilton Coal Co.....               | Danville.....   | 2     | 4     | 4     | ..... | ..... |
| 11                        | Mission Mining Co., No. 1.....    | do.....         | ..... | ..... | ..... | 60    | 8     |
| 12                        | Black Diamond Coal Co.,.....      | do.....         | 1     | 5     | 2     | ..... | ..... |
| 13                        | Fairmount Coal Co.....            | Fairmount.....  | 1     | 6     | 2     | ..... | ..... |
| 14                        | Bushong Bros.....                 | Muncie.....     | 2     | 5     | 3     | ..... | ..... |
| 15                        | Sharon C. & B. Co.....            | Georgetown..... | 1     | 2     | ..... | ..... | ..... |
| 16                        | Traer Coal Co.....                | Danville.....   | ..... | 3     | 1     | ..... | 2     |
| 17                        | Missionfield Coal Co., No. 2..... | do.....         | 1     | 1     | 3     | ..... | ..... |
| 18                        | Missionfield Coal Co., No. 3..... | do.....         | ..... | 1     | ..... | 7     | 2     |
| Total.....                |                                   |                 | 30    | 196   | 560   | 386   | 59    |
| Total Fifth District..... |                                   |                 | 61    | 388   | 769   | 386   | 101   |

## LOGAN COUNTY—

|            |                              |                  |       |    |       |       |       |
|------------|------------------------------|------------------|-------|----|-------|-------|-------|
| 1          | Latham Coal Co.....          | Lincoln.....     | 4     | 24 | 20    | ..... | ..... |
| 2          | Citizens Coal Mining Co..... | do.....          | 2     | 14 | ..... | ..... | ..... |
| 3          | Lincoln Mining Co.....       | do.....          | 2     | 6  | 3     | 3     | 3     |
| 4          | Mt. Pulaski Col. Co.....     | Mt. Pulaski..... | ..... | 2  | 1     | ..... | ..... |
| Total..... |                              |                  | 8     | 48 | 24    | 3     | 3     |

## McLEAN COUNTY—

|            |                            |                  |   |    |       |       |       |
|------------|----------------------------|------------------|---|----|-------|-------|-------|
| 1          | McLean County Coal Co..... | Bloomington..... | 2 | 10 | 2     | ..... | ..... |
| 2          | Colfax Coop. Co.....       | Colfax.....      | 1 | 3  | ..... | ..... | ..... |
| Total..... |                            |                  | 3 | 13 | 2     | ..... | ..... |

Continued.

## FIFTH DISTRICT.

| in each occupation. |                 |                |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| 63                  | 4               | 4              | 3              | 100                       | 7                            | 107                                     | 120                                | 61,409                       | 1       |
| 56                  | 4               | 2              | 2              | 104                       | .....                        | 104                                     | 123                                | 53,426                       |         |
| 119                 | 8               | 6              | 5              | 204                       | 7                            | 211                                     | 122                                | 114,835                      | 2       |

## FIFTH DISTRICT.

|       |       |       |       |       |       |       |     |           |    |
|-------|-------|-------|-------|-------|-------|-------|-----|-----------|----|
| 239   | 14    | 7     | 14    | 618   | 66    | 684   | 262 | 640,664   | 1  |
| 410   | 12    | 8     | 9     | 581   | 62    | 643   | 263 | 561,169   | 2  |
| 266   | 10    | 4     | 8     | 380   | 5     | 385   | 206 | 326,947   | 3  |
| 142   | 8     | 5     | 8     | 325   | 50    | 375   | 259 | 302,724   | 4  |
| 262   | 14    | 8     | 8     | 382   | 3     | 385   | 201 | 301,103   | 5  |
| 59    | 65    | 4     | 4     | 253   | 43    | 296   | 265 | 297,587   | 6  |
| 159   | 10    | 4     | 8     | 237   | 5     | 242   | 201 | 202,655   | 7  |
| 180   | 3     | 4     | 3     | 199   | ..... | 199   | 273 | 201,857   | 8  |
| 108   | 6     | 2     | 3     | 144   | 4     | 148   | 227 | 115,176   | 9  |
| 63    | 3     | 1     | ..... | 77    | 3     | 80    | 219 | 73,941    | 10 |
| ..... | ..... | ..... | ..... | 70    | ..... | 70    | 232 | 53,248    | 11 |
| 48    | 2     | 2     | ..... | 60    | 5     | 65    | 215 | 42,370    | 12 |
| 48    | 2     | 2     | ..... | 61    | 7     | 68    | 181 | 38,250    | 13 |
| 30    | 4     | 2     | ..... | 46    | 4     | 50    | 160 | 28,819    | 14 |
| 16    | 1     | ..... | ..... | 20    | 6     | 26    | 195 | 17,715    | 15 |
| 14    | 1     | 1     | ..... | 22    | 3     | 25    | 188 | 10,775    | 16 |
| 8     | ..... | ..... | ..... | 12    | ..... | 12    | 162 | 3,576     | 17 |
| 9     | ..... | ..... | ..... | 19    | 1     | 20    | 131 | 2,738     | 18 |
| 2,061 | 95    | 54    | 65    | 3,506 | 267   | 3,773 | 213 | 3,221,314 |    |
| 4,128 | 139   | 111   | 125   | 6,208 | 499   | 6,707 | 185 | 5,002,440 |    |

## SIXTH DISTRICT.

|     |    |    |       |     |    |     |     |         |   |
|-----|----|----|-------|-----|----|-----|-----|---------|---|
| 247 | 10 | 8  | 11    | 324 | 29 | 353 | 203 | 227,586 | 1 |
| 86  | 4  | 2  | 2     | 110 | 30 | 140 | 210 | 95,971  | 2 |
| 90  | 3  | 3  | 5     | 120 | 30 | 150 | 156 | 91,000  | 3 |
| 25  | 1  | 1  | ..... | 30  | 4  | 34  | 170 | 14,998  | 4 |
| 448 | 18 | 14 | 18    | 584 | 93 | 677 | 185 | 429,555 |   |

## SIXTH DISTRICT.

|     |   |   |       |     |    |     |     |        |   |
|-----|---|---|-------|-----|----|-----|-----|--------|---|
| 119 | 4 | 4 | 1     | 142 | 26 | 168 | 220 | 77,153 | 1 |
| 17  | 2 | 1 | ..... | 24  | 8  | 32  | 232 | 19,745 | 2 |
| 136 | 6 | 5 | 1     | 166 | 34 | 200 | 226 | 96,898 |   |

Table 48—

## SANGAMON COUNTY—

| Number.              | Name of operator.                 | Postoffice address or location of mine. | Number of employees |          |           |          |              |
|----------------------|-----------------------------------|---|---------------------|----------|-----------|----------|--------------|
|                      |                                   |   | Cagers.             | Drivers. | Laborers. | Loaders. | Machine-men. |
| 1                    | C. W. & V. C. Co., No. 1          | Thayer                                  | 4                   | 35       | 25        | 267      | 48           |
| 2                    | Jones-Adams Coal Co.              | Springfield                             | 4                   | 26       | 37        |          |              |
| 3                    | Springfield C. M. Co., No. 2      | Riverton                                | 4                   | 16       | 23        |          |              |
| 4                    | Illinois-Midland Coal Co., No. 5  | Pawnee                                  | 4                   | 20       | 35        |          |              |
| 5                    | Madison Coal Corp., No. 6         | Divernon                                | 6                   | 32       | 22        | 285      | 54           |
| 6                    | Black Diamond Coal Co.            | Auburn                                  | 5                   | 12       | 7         |          |              |
| 7                    | Woodside Coal Co.                 | Springfield                             | 3                   | 17       | 36        |          |              |
| 8                    | Illinois-Midland Coal Co., No. 6  | Sherman                                 | 4                   | 22       | 6         |          |              |
| 9                    | Capitol Coal Co., No. 2           | Springfield                             | 4                   | 18       | 26        | 1        |              |
| 10                   | Chicago-Springfield Coal Co.      | do.                                     | 4                   | 25       | 7         |          |              |
| 11                   | Sangamon Coal Co.                 | do.                                     | 2                   | 23       | 5         |          |              |
| 12                   | Springfield C. M. Co., No. 5      | do.                                     | 2                   | 26       | 29        |          |              |
| 13                   | Cora Coal Co.                     | do.                                     | 2                   | 14       | 6         |          |              |
| 14                   | Auburn & Alton Coal Co.           | Auburn                                  | 4                   | 16       |           |          |              |
| 15                   | T. J. O'Gara                      | Springfield                             | 2                   | 16       | 11        |          |              |
| 16                   | West End Coal Co.                 | do.                                     | 1                   | 12       | 3         | 2        |              |
| 17                   | Williamsville Coal Co.            | Selbytown                               | 2                   | 13       | 2         |          |              |
| 18                   | Cantrall Coöp. Coal Co., Cantrall | Cantrall                                | 2                   | 10       | 3         |          |              |
| 19                   | Springfield Coöp Coal Co.         | Springfield                             | 4                   | 9        | 8         |          |              |
| 20                   | Lefton Coal Co.                   | Auburn                                  | 4                   | 12       |           |          |              |
| 21                   | Wabash Coal Co.                   | Dawson                                  | 2                   | 12       |           |          |              |
| 22                   | Citizens Coal Mining Co., A       | Springfield                             | 2                   | 16       |           |          |              |
| 23                   | Tuxhorn Coal Co.                  | do.                                     | 4                   | 17       | 10        |          |              |
| 24                   | Barclay Coal & Mining Co.         | Barclay                                 | 2                   | 11       | 3         |          |              |
| 25                   | Spring Creek Coal Co.             | Springfield                             | 3                   | 10       | 2         |          |              |
| 26                   | Dickerson Coal Co.                | do.                                     | 1                   | 10       | 4         |          |              |
| 27                   | Cantrall Coöp. Coal Co., Republic | do.                                     | 3                   | 12       | 9         |          |              |
| 28                   | Spaulding Coal Co.                | Spaulding                               | 2                   | 16       |           |          |              |
| 29                   | Citizens Coal Mining Co., B       | Springfield                             | 2                   | 16       |           |          |              |
| Total                |                                   |   | 88                  | 494      | 319       | 555      | 102          |
| Total Sixth District |                                   |   | 99                  | 555      | 345       | 558      | 105          |

## MACOUPIN COUNTY—

|       |                           |             |    |     |     |       |     |
|-------|---------------------------|-------------|----|-----|-----|-------|-----|
| 1     | Superior Coal Co., 3      | Gillespie   | 4  | 30  |     | 330   | 92  |
| 2     | Superior Coal Co., 2      | do.         | 4  | 30  |     | 298   | 90  |
| 3     | Superior Coal Co., 1      | do.         | 4  | 26  |     | 294   | 96  |
| 4     | Consolidated Coal Co., 14 | Staunton    | 9  | 25  | 25  | 243   | 80  |
| 5     | Consolidated Coal Co., 15 | Mt. Olive   | 6  | 22  | 20  | 210   | 60  |
| 6     | Royal Colliery Co.        | Viriden     | 3  | 23  | 46  | 52    |     |
| 7     | Girard Collieries Co.     | Girard      | 3  | 19  | 3   |       |     |
| 8     | Madison Coal Corp.        | Mt. Olive   | 3  | 18  | 22  | 136   | 40  |
| 9     | Vivian Collieries Co.     | Greenridge  | 2  | 16  | 21  |       |     |
| 10    | Greenridge Coal Co.       | Viriden     | 2  | 17  | 50  |       | 26  |
| 11    | Consolidated Coal Co., 8  | Mt. Olive   | 2  | 11  | 13  | 95    | 28  |
| 12    | Carlinville Coal Co.      | Carlinville | 2  | 11  |     |       |     |
| 13    | Illinois Central Fuel Co. | Nilwood     | 2  | 12  | 21  |       |     |
| Total |                           |             | 46 | 260 | 221 | 1,658 | 512 |

Continued.

## SIXTH DISTRICT.

| in each occupation. |                 |                |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| .....               | 4               | 11             | 21             | 415                       | 110                          | 525                                     | 199                                | 486,140                      | 1       |
| 370                 | 8               | 9              | 10             | 464                       | 45                           | 509                                     | 208                                | 472,380                      | 2       |
| 311                 | 8               | 10             | 10             | 382                       | 16                           | 398                                     | 192                                | 388,937                      | 3       |
| 354                 | 5               | 10             | 8              | 436                       | 25                           | 461                                     | 213                                | 382,588                      | 4       |
| .....               | 24              | 30             | 15             | 468                       | 46                           | 514                                     | 132                                | 354,650                      | 5       |
| 225                 | 6               | 8              | 3              | 266                       | 16                           | 282                                     | 194                                | 311,600                      | 6       |
| 260                 | 8               | 8              | 6              | 338                       | 9                            | 347                                     | 200                                | 269,354                      | 7       |
| 295                 | 8               | 9              | 6              | 350                       | 64                           | 414                                     | 139                                | 265,683                      | 8       |
| 210                 | 5               | 15             | 4              | 283                       | 22                           | 305                                     | 212                                | 222,792                      | 9       |
| 200                 | 4               | 4              | 6              | 250                       | 14                           | 264                                     | 151                                | 199,478                      | 10      |
| 185                 | 2               | 4              | 4              | 225                       | 24                           | 249                                     | 203                                | 197,301                      | 11      |
| 205                 | 8               | 8              | 9              | 287                       | 11                           | 298                                     | 154                                | 191,634                      | 12      |
| 165                 | 3               | 6              | 2              | 198                       | 19                           | 217                                     | 163                                | 179,609                      | 13      |
| 150                 | 2               | 2              | 3              | 177                       | 10                           | 187                                     | 185                                | 127,924                      | 14      |
| 125                 | 6               | 6              | .....          | 166                       | 9                            | 175                                     | 202                                | 121,344                      | 15      |
| 162                 | 2               | 2              | 2              | 186                       | 15                           | 201                                     | 132                                | 119,261                      | 16      |
| 95                  | 7               | 6              | 5              | 130                       | 12                           | 142                                     | 169                                | 118,941                      | 17      |
| 109                 | 5               | 7              | 4              | 140                       | 19                           | 159                                     | 209                                | 117,291                      | 18      |
| 96                  | 2               | 2              | 2              | 123                       | 15                           | 138                                     | 206                                | 115,300                      | 19      |
| 160                 | 2               | 1              | 2              | 181                       | 15                           | 196                                     | 173                                | 112,648                      | 20      |
| 91                  | 4               | 3              | 4              | 116                       | 24                           | 140                                     | 200                                | 105,191                      | 21      |
| 91                  | 2               | 1              | 1              | 113                       | 18                           | 131                                     | 208                                | 93,298                       | 22      |
| 172                 | 4               | 4              | 2              | 213                       | 4                            | 217                                     | 124                                | 88,066                       | 23      |
| 95                  | 2               | 2              | 2              | 117                       | 23                           | 140                                     | 138                                | 81,658                       | 24      |
| 83                  | 4               | 2              | 1              | 105                       | 8                            | 113                                     | 124                                | 75,453                       | 25      |
| 87                  | 1               | 1              | 1              | 105                       | 21                           | 126                                     | 162                                | 74,863                       | 26      |
| 84                  | 2               | 4              | 3              | 117                       | 13                           | 130                                     | 163                                | 69,779                       | 27      |
| 95                  | 2               | 2              | 3              | 120                       | 11                           | 131                                     | 91                                 | 37,488                       | 28      |
| 93                  | 5               | 3              | 1              | 120                       | 20                           | 140                                     | 45                                 | 21,414                       | 29      |
| 4,568               | 145             | 180            | 140            | 6,591                     | 658                          | 7,249                                   | 169                                | 5,402,065                    |         |
| 5,152               | 169             | 199            | 159            | 7,341                     | 785                          | 8,126                                   | 174                                | 5,928,518                    |         |

## SEVENTH DISTRICT.

|       |    |     |       |       |     |       |     |           |    |
|-------|----|-----|-------|-------|-----|-------|-----|-----------|----|
| ..... | 10 | 26  | 17    | 509   | 92  | 601   | 229 | 837,979   | 1  |
| ..... | 10 | 30  | 18    | 480   | 73  | 553   | 228 | 791,835   | 2  |
| ..... | 10 | 22  | 13    | 465   | 97  | 562   | 225 | 673,717   | 3  |
| ..... | 9  | 20  | 9     | 420   | 80  | 500   | 199 | 534,485   | 4  |
| ..... | 4  | 16  | 12    | 350   | 65  | 415   | 198 | 460,116   | 5  |
| 200   | 13 | 5   | 6     | 348   | 32  | 380   | 186 | 362,815   | 6  |
| 260   | 4  | 4   | 7     | 300   | 20  | 320   | 166 | 263,512   | 7  |
| ..... | 16 | 7   | 11    | 253   | 46  | 299   | 186 | 252,885   | 8  |
| 190   | 5  | 8   | 8     | 250   | 24  | 274   | 228 | 226,500   | 9  |
| 158   | 4  | 8   | 6     | 271   | 16  | 287   | 161 | 212,096   | 10 |
| ..... | 8  | 6   | 6     | 169   | 40  | 209   | 182 | 166,893   | 11 |
| 79    | 2  | 2   | ..... | 96    | 12  | 108   | 195 | 76,939    | 12 |
| 89    | 4  | 4   | 2     | 134   | 8   | 142   | 61  | 30,850    | 13 |
| 976   | 99 | 158 | 115   | 4,045 | 605 | 4,650 | 188 | 4,890,622 |    |

Table 48—

## MONTGOMERY COUNTY—

| Number.                     | Name of operator.               | Postoffice address or location of mine. | Number of employees |          |           |          |              |
|-----------------------------|---------------------------------|---|---------------------|----------|-----------|----------|--------------|
|                             |                                 |   | Cagers.             | Drivers. | Laborers. | Loaders. | Machine-men. |
| 1                           | Shoal Creek Coal Co. ....       | Panama.....                             | 1                   | 18       | 50        | 200      | 68           |
| 2                           | Peabody Coal Co., No. 14.....   | Witt.....                               | 2                   | 18       | 4         | .....    | .....        |
| 3                           | Montgomery County Coal Co. .... | Hillsboro.....                          | 10                  | 21       | 24        | 315      | 35           |
| 4                           | Hillsboro Coal Co. ....         | do.....                                 | 2                   | 20       | 42        | .....    | 18           |
| 5                           | Burnwell Coal Co. ....          | Witt.....                               | 2                   | 17       | .....     | .....    | .....        |
| 6                           | Kortkamp Coal Co. ....          | Hillsboro.....                          | 4                   | 25       | 35        | 168      | 24           |
| 7                           | Clover Leaf Mining Co. ....     | Coffeen.....                            | 4                   | 14       | 4         | 12       | 2            |
| 8                           | Peabody Coal Co., No. 10.....   | Nokomis.....                            | 2                   | 8        | 10        | 37       | 16           |
| 9                           | Farmersville Coal Co. ....      | Farmersville.....                       | 2                   | 12       | 6         | .....    | .....        |
| 10                          | Litchfield Coal Co. ....        | Litchfield.....                         | 2                   | 5        | 4         | .....    | .....        |
| Total.....                  |                                 |   | 31                  | 158      | 179       | 732      | 163          |
| Total Seventh District..... |                                 |   | 77                  | 418      | 400       | 2,380    | 675          |

## BOND COUNTY—

|            |                                 |                 |   |    |       |       |       |
|------------|---------------------------------|-----------------|---|----|-------|-------|-------|
| 1          | Pocahontas Mining Co. ....      | Pocahontas..... | 3 | 12 | ..... | ..... | ..... |
| 2          | Northern Coal & Supply Co. .... | Sorento.....    | 1 | 11 | 8     | ..... | ..... |
| Total..... |                                 |                 | 4 | 23 | 8     | ..... | ..... |

## CLINTON COUNTY—

|            |                                       |                 |    |    |     |       |       |
|------------|---------------------------------------|-----------------|----|----|-----|-------|-------|
| 1          | Southern Coal & Mining Co., No. 9.... | New Baden.....  | 4  | 15 | 8   | 206   | 66    |
| 2          | Breese Trenton Mining Co., E. M. .... | Breese.....     | 2  | 10 | 16  | ..... | 4     |
| 3          | Breese Trenton Mining Co., Buxton.... | Beckemeyer..... | 2  | 12 | 18  | ..... | 4     |
| 4          | North Breese Coal Mining Co. ....     | Breese.....     | 6  | 14 | 9   | 42    | 8     |
| 5          | Consolidated Coal Co. ....            | do.....         | 3  | 9  | 15  | ..... | ..... |
| Total..... |                                       |                 | 18 | 60 | 666 | 248   | 82    |

## MADISON COUNTY—

|            |  |                   |    |     |     |       |       |
|------------|--|-------------------|----|-----|-----|-------|-------|
| 1          | New Staunton Coal Co. ....             | Livingston.....   | 2  | 32  | 10  | 404   | 62    |
| 2          | Mt. Olive & Staunton Coal Co., No. 2.. | Staunton.....     | 4  | 30  | 15  | 343   | 58    |
| 3          | Donk Bros. C. & C. Co., No. 2.....     | Maryville.....    | 9  | 26  | 50  | ..... | 75    |
| 4          | Mt. Olive & Staunton Coal Co., No. 1.. | Staunton.....     | 5  | 16  | 6   | 209   | 32    |
| 5          | Lumaghi Coal Co., No. 2.....           | Collinsville..... | 3  | 35  | 40  | 212   | 56    |
| 6          | Donk Bros. C. & C. Co., No. 1.....     | do.....           | 7  | 18  | 44  | ..... | ..... |
| 7          | Donk Bros. C. & C. Co., No. 3.....     | Troy.....         | 5  | 15  | 35  | ..... | ..... |
| 8          | Madison Coal Corp., No. 2.....         | Glen Carbon.....  | 4  | 10  | 15  | 136   | 38    |
| 9          | Madison Coal Corp., No. 4.....         | do.....           | 2  | 10  | 15  | 137   | 36    |
| 10         | Kerns-Domewald Coal Co. ....           | Worden.....       | 1  | 7   | 12  | 98    | 14    |
| 11         | Lumaghi Coal Co., No. 3.....           | Collinsville..... | 2  | 11  | 8   | 72    | 13    |
| 12         | De Camp Coal Co. ....                  | Staunton.....     | 1  | 14  | 2   | ..... | 18    |
| 13         | City Coal Co. ....                     | Edwardsville..... | 1  | 5   | 3   | 38    | 10    |
| 14         | Edwardsville Home Trade Coal Co. ....  | do.....           | 1  | 3   | 2   | ..... | ..... |
| 15         | Brookside Coal Co. ....                | Troy.....         | 1  | 4   | 4   | ..... | ..... |
| 16         | W. S. Walker.....                      | Edwardsville..... | 1  | 3   | 4   | 18    | 4     |
| Total..... |  |                   | 49 | 239 | 265 | 1,667 | 416   |

Continued.

## SEVENTH DISTRICT.

| in each occupation. |                 |                |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| -----               | 12              | 12             | 15             | 376                       | 50                           | 426                                     | 222                                | 407,025                      | 1       |
| 300                 | 10              | 7              | 4              | 345                       | 45                           | 390                                     | 201                                | 366,937                      | 2       |
| -----               | 15              | 12             | 6              | 438                       | -----                        | 438                                     | 175                                | 329,222                      | 3       |
| 125                 | 4               | 4              | 2              | 218                       | -----                        | 218                                     | 228                                | 293,619                      | 4       |
| 245                 | 8               | 4              | 5              | 281                       | 52                           | 333                                     | 145                                | 277,015                      | 5       |
| -----               | 6               | 6              | 6              | 274                       | 6                            | 280                                     | 167                                | 222,256                      | 6       |
| 148                 | 8               | 5              | 3              | 200                       | 15                           | 215                                     | 171                                | 134,247                      | 7       |
| 45                  | -----           | 2              | 3              | 123                       | 14                           | 137                                     | 179                                | 111,480                      | 8       |
| 114                 | 4               | 4              | 4              | 146                       | 14                           | 160                                     | 98                                 | 94,490                       | 9       |
| 50                  | 2               | 1              | 1              | 65                        | 10                           | 75                                      | 180                                | 44,050                       | 10      |
| 1,028               | 69              | 57             | 49             | 2,466                     | 206                          | 2,672                                   | 177                                | 2,280,341                    |         |
| 2,004               | 168             | 215            | 164            | 6,511                     | 811                          | 7,322                                   | 183                                | 7,170,963                    |         |

## EIGHTH DISTRICT.

|     |   |   |   |     |    |     |     |         |   |
|-----|---|---|---|-----|----|-----|-----|---------|---|
| 143 | 2 | 2 | 4 | 166 | 20 | 186 | 153 | 131,527 | 1 |
| 90  | 2 | 3 | 3 | 118 | 12 | 130 | 166 | 51,653  | 2 |
| 233 | 4 | 5 | 7 | 284 | 32 | 316 | 160 | 183,180 |   |

## EIGHTH DISTRICT.

|       |    |    |    |       |     |       |     |           |   |
|-------|----|----|----|-------|-----|-------|-----|-----------|---|
| ----- | 6  | 12 | 7  | 324   | 58  | 382   | 200 | 352,301   | 1 |
| 170   | 4  | 4  | 4  | 214   | 29  | 243   | 212 | 230,060   | 2 |
| 185   | 5  | 5  | 5  | 237   | 29  | 266   | 152 | 171,752   | 3 |
| 105   | 3  | 8  | 1  | 196   | 33  | 229   | 150 | 163,726   | 4 |
| 145   | 3  | 3  | 2  | 180   | 15  | 195   | 113 | 95,143    | 5 |
| 605   | 21 | 32 | 19 | 1,151 | 164 | 1,315 | 165 | 1,012,982 |   |

## EIGHTH DISTRICT.

|       |       |       |       |       |     |       |     |           |    |
|-------|-------|-------|-------|-------|-----|-------|-----|-----------|----|
| ----- | 2     | 16    | 14    | 542   | 80  | 622   | 195 | 737,632   | 1  |
| ----- | 2     | 16    | 19    | 487   | 73  | 560   | 148 | 506,044   | 2  |
| 225   | 30    | ----- | 3     | 418   | 32  | 450   | 176 | 308,904   | 3  |
| ----- | 4     | 9     | 16    | 297   | 46  | 343   | 181 | 311,682   | 4  |
| ----- | 16    | 14    | 11    | 387   | 43  | 430   | 107 | 238,140   | 5  |
| 180   | 1     | 10    | 4     | 264   | 36  | 300   | 139 | 225,857   | 6  |
| 184   | 24    | 5     | 2     | 270   | 77  | 347   | 187 | 209,076   | 7  |
| ----- | 10    | 4     | 6     | 223   | 50  | 273   | 157 | 199,204   | 8  |
| ----- | 8     | 4     | 4     | 216   | 49  | 265   | 154 | 178,713   | 9  |
| ----- | 4     | 7     | 3     | 146   | 17  | 163   | 158 | 122,584   | 10 |
| 13    | 4     | 5     | 5     | 133   | 27  | 160   | 104 | 91,671    | 11 |
| 119   | 1     | 6     | 1     | 162   | 27  | 189   | 101 | 87,349    | 12 |
| ----- | 2     | 1     | 2     | 62    | 9   | 71    | 212 | 42,442    | 13 |
| 36    | ----- | 1     | ----- | 43    | 5   | 48    | 243 | 37,997    | 14 |
| 23    | 2     | 1     | 1     | 36    | 6   | 42    | 188 | 16,535    | 15 |
| ----- | 1     | ----- | 2     | 33    | 5   | 38    | 90  | 15,100    | 16 |
| 780   | 111   | 99    | 93    | 3,719 | 582 | 4,301 | 159 | 3,400,930 |    |

Table 48—

## MARION COUNTY—

| Number.                    | Name of operator.                      | Postoffice.<br>address or<br>location of mine. | Number of employees |               |                |               |                       |
|----------------------------|--|--|---------------------|---------------|----------------|---------------|-----------------------|
|                            |  |  | Cagers.             | Driv-<br>ers. | Labor-<br>ers. | Load-<br>ers. | Ma-<br>chine-<br>men. |
| 1                          | Marion County Coal Co. ....            | Centralia.....                                 | 2                   | 21            | 65             | .....         | 32                    |
| 2                          | Centralia Coal Co., No. 2 .....        | ..do.....                                      | 2                   | 26            | 8              | .....         | .....                 |
| 3                          | Chicago Sandoval Coal Co., No. 2 ..... | Sandoval.....                                  | 6                   | 26            | 5              | .....         | .....                 |
| 4                          | Centralia Coal Co., No. 4 .....        | Centralia.....                                 | 3                   | 18            | 16             | .....         | .....                 |
| 5                          | Odin Coal Co. ....                     | Odin.....                                      | 5                   | 18            | .....          | 132           | 22                    |
| 6                          | Chicago Sandoval Coal Co., No. 1 ..... | Sandoval.....                                  | 3                   | 7             | 2              | .....         | .....                 |
| Total.....                 |  |  | 21                  | 116           | 96             | 132           | 54                    |
| Total Eighth District..... |  |  | 92                  | 438           | 435            | 2,047         | 552                   |

## ST. CLAIR COUNTY—

|    |   |                   |       |       |       |       |       |
|----|---|-------------------|-------|-------|-------|-------|-------|
| 1  | St. Louis & O'Fallon Coal Co., No. 2 .....  | E. St. Louis..... | 4     | 24    | 90    | 280   | 90    |
| 2  | Consolidated Coal Co. ....                  | Collinsville..... | 6     | 23    | 66    | 180   | 64    |
| 3  | Southern Coal & Mining Co., No. 8 .....     | Belleville.....   | 4     | 20    | 6     | 168   | 28    |
| 4  | Prairie Coal Co. ....                       | ..do.....         | 4     | 17    | 10    | ..... | ..... |
| 5  | Southern Coal & Mining Co., No. 7 .....     | ..do.....         | 3     | 17    | 6     | 102   | 38    |
| 6  | Joseph Taylor, St. Ellen .....              | O'Fallon.....     | 4     | 10    | 6     | ..... | ..... |
| 7  | Superior Coal & Mining Co. ....             | Belleville.....   | 2     | 8     | 6     | ..... | 20    |
| 8  | Suburban Coal & Mining Co. ....             | ..do.....         | 3     | 12    | 2     | ..... | ..... |
| 9  | Royal Coal & Mining Co. ....                | ..do.....         | 2     | 14    | 7     | 67    | 22    |
| 10 | St. Louis & O'Fallon Coal Co., No. 1 .....  | E. St. Louis..... | 4     | 20    | 62    | ..... | ..... |
| 11 | Kolb Coal Co. ....                          | Mascoutah.....    | 2     | 6     | 7     | 1     | ..... |
| 12 | Breeze Trenton Mining Co. ....              | Trenton.....      | 2     | 14    | 8     | 80    | 36    |
| 13 | Joseph Taylor Coal Co., Taylor .....        | O'Fallon.....     | 4     | 8     | 4     | ..... | ..... |
| 14 | Fullerton Coal Co. ....                     | Belleville.....   | 2     | 7     | 6     | ..... | ..... |
| 15 | Joseph Taylor Coal Co., R. P. ....          | O'Fallon.....     | 4     | 8     | 5     | ..... | ..... |
| 16 | Kolb Coal Co. ....                          | New Athens.....   | 2     | 6     | 5     | 1     | ..... |
| 17 | Borders Coal Co. ....                       | Marissa.....      | 3     | 6     | 8     | ..... | ..... |
| 18 | Pittsburg Mining Co. ....                   | Belleville.....   | 1     | 3     | 3     | ..... | ..... |
| 19 | Johnson Coal Co. ....                       | Marissa.....      | 2     | 4     | 1     | ..... | ..... |
| 20 | Star Coal Co. ....                          | Freeburg.....     | 1     | 3     | ..... | 49    | 14    |
| 21 | Missouri and Illinois Coal Co. ....         | Rentchler.....    | 2     | 4     | 2     | 48    | 8     |
| 22 | Jones Bros. Coal & Mining Co. ....          | Marissa.....      | 1     | 4     | 6     | ..... | ..... |
| 23 | International Coal Co. ....                 | O'Fallon.....     | 1     | 7     | 10    | ..... | ..... |
| 24 | Summit Coal & Mining Co. ....               | Belleville.....   | 2     | 8     | 6     | ..... | ..... |
| 25 | Mulberry Hill Coal Co. ....                 | Freeburg.....     | 1     | 7     | 3     | 60    | 8     |
| 26 | Dewey Coal & Mining Co. ....                | Belleville.....   | 1     | 4     | ..... | ..... | ..... |
| 27 | Wilharmel Coal & Coke Co. ....              | ..do.....         | 1     | 7     | 2     | ..... | ..... |
| 28 | Egyptian Coal & Mining Co. ....             | Marissa.....      | 3     | 8     | 3     | ..... | ..... |
| 29 | Southern Coal & Mining Co., No. 1 .....     | Belleville.....   | 2     | 8     | 6     | 63    | 12    |
| 30 | Glendale Coal & Mining Co. ....             | ..do.....         | 1     | 4     | 6     | ..... | ..... |
| 31 | Groom Coal Co. ....                         | ..do.....         | 1     | 4     | ..... | ..... | ..... |
| 32 | Missouri and Ill. Coal Co., Wilderman ..... | ..do.....         | 1     | 7     | 1     | 47    | 4     |
| 33 | L. Senior .....                             | ..do.....         | 1     | 2     | 1     | ..... | ..... |
| 34 | Cluley Miller Coal Co. ....                 | Caseyville.....   | 1     | 3     | 2     | ..... | ..... |
| 35 | Kolb Coal Co. ....                          | Birkner.....      | 1     | 4     | 3     | 1     | ..... |
| 36 | International Coal & Mining Co. ....        | O'Fallon.....     | 1     | 6     | 8     | 36    | 6     |
| 37 | Gauch Coal & Mining Co. ....                | Rentchler.....    | 1     | 4     | 2     | ..... | ..... |
| 38 | Southern Coal & Mining Co., No. 3 .....     | Belleville.....   | 2     | 5     | 2     | ..... | ..... |
| 39 | Tirre Coal & Mining Co. ....                | Lenzburg.....     | 2     | 4     | 5     | ..... | ..... |
| 40 | Highland Coal Co. ....                      | Belleville.....   | ..... | 2     | ..... | ..... | ..... |
| 41 | F. Sargent & Sons .....                     | ..do.....         | 1     | 2     | ..... | ..... | ..... |
| 42 | Maul Coal & Mining Co. ....                 | ..do.....         | 1     | 5     | 1     | ..... | ..... |
| 43 | Southern Coal & Mining Co., No. 6 .....     | ..do.....         | 1     | 7     | 3     | ..... | ..... |
| 44 | Vulcan Coal & Mining Co. ....               | ..do.....         | 2     | 5     | 8     | ..... | ..... |
| 45 | T. M. Meek Coal Co. ....                    | Marissa.....      | 2     | 4     | ..... | ..... | ..... |
| 46 | White and Sons .....                        | Belleville.....   | 1     | 2     | ..... | ..... | ..... |
| 47 | Reeb Coal Co. ....                          | ..do.....         | 1     | ..... | ..... | ..... | ..... |
| 48 | Southern Coal & Mining Co., No. 4 .....     | ..do.....         | 2     | 5     | 2     | 30    | 8     |
| 49 | Kolb Coal Co. ....                          | New Athens.....   | 1     | 4     | 2     | ..... | ..... |



Continued.

## EIGHTH DISTRICT.

| in each occupation. |                 |                |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>ton: pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| 176                 | 9               | 8              | 8              | 321                       | 9                            | 330                                     | 242                                | 357,648                      | 1       |
| 210                 | 4               | 4              | 7              | 261                       | 39                           | 300                                     | 194                                | 245,901                      | 2       |
| 175                 | 2               | 5              | 4              | 223                       | 15                           | 238                                     | 229                                | 193,688                      | 3       |
| 140                 | 2               | 4              | 7              | 190                       | 26                           | 216                                     | 201                                | 188,365                      | 4       |
| 70                  | 4               | 3              | 7              | 191                       | 24                           | 215                                     | 213                                | 167,138                      | 5       |
|                     |                 | 3              | 1              | 86                        | 14                           | 100                                     | 153                                | 51,207                       | 6       |
| 771                 | 21              | 27             | 34             | 1,272                     | 127                          | 1,399                                   | 205                                | 1,203,947                    |         |
| 2,389               | 157             | 163            | 153            | 6,426                     | 905                          | 7,331                                   | 170                                | 5,801,039                    |         |

## NINTH DISTRICT.

|     |    |    |   |     |    |     |     |         |    |
|-----|----|----|---|-----|----|-----|-----|---------|----|
| 30  | 4  | 12 | 6 | 570 | 10 | 580 | 229 | 564,708 | 1  |
|     | 6  | 22 |   | 367 | 5  | 372 | 201 | 516,913 | 2  |
|     | 6  | 8  | 3 | 243 | 40 | 283 | 215 | 331,987 | 3  |
| 215 | 8  | 5  |   | 259 | 12 | 271 | 232 | 325,680 | 4  |
|     | 2  | 6  | 2 | 176 | 26 | 202 | 233 | 233,921 | 5  |
| 185 | 2  | 5  | 4 | 216 | 22 | 238 | 136 | 180,593 | 6  |
| 62  | 2  | 3  |   | 103 | 28 | 131 | 206 | 158,622 | 7  |
| 90  |    | 3  |   | 110 | 8  | 118 | 229 | 151,603 | 8  |
|     |    | 4  | 2 | 118 | 11 | 129 | 160 | 131,700 | 9  |
| 280 | 4  | 8  | 2 | 380 | 22 | 402 | 102 | 128,706 | 10 |
| 80  |    |    |   | 96  | 6  | 102 | 337 | 117,790 | 11 |
|     | 16 | 6  | 8 | 170 | 10 | 180 | 136 | 105,465 | 12 |
| 108 | 2  | 2  |   | 128 | 18 | 146 | 144 | 98,046  | 13 |
| 74  |    | 1  |   | 90  | 1  | 91  | 151 | 82,283  | 14 |
| 90  | 2  | 4  | 2 | 115 | 14 | 129 | 125 | 81,952  | 15 |
| 45  |    | 1  |   | 60  | 4  | 64  | 235 | 80,102  | 16 |
| 80  |    | 2  |   | 99  | 3  | 102 | 109 | 64,218  | 17 |
| 42  |    |    |   | 49  | 6  | 55  | 223 | 56,450  | 18 |
| 60  | 2  | 1  |   | 70  | 6  | 76  | 130 | 56,167  | 19 |
|     |    | 2  |   | 69  | 6  | 75  | 137 | 55,461  | 20 |
|     |    | 3  |   | 67  | 7  | 74  | 151 | 51,603  | 21 |
| 60  |    | 1  |   | 72  |    | 72  | 103 | 50,649  | 22 |
| 75  |    | 2  |   | 95  | 12 | 107 | 87  | 40,780  | 23 |
| 60  |    | 2  |   | 78  | 4  | 82  | 95  | 40,532  | 24 |
|     |    | 2  |   | 81  | 5  | 86  | 60  | 40,400  | 25 |
| 38  |    | 1  |   | 44  | 4  | 48  | 180 | 40,200  | 26 |
| 52  |    | 2  | 1 | 65  | 5  | 70  | 86  | 36,890  | 27 |
| 80  | 1  | 2  |   | 97  | 23 | 120 | 52  | 36,407  | 28 |
|     | 2  | 4  | 2 | 99  | 12 | 111 | 88  | 35,670  | 29 |
| 35  | 1  | 1  |   | 48  | 7  | 55  | 139 | 29,660  | 30 |
| 25  |    | 1  |   | 31  | 4  | 35  | 175 | 29,405  | 31 |
|     |    | 1  |   | 61  | 6  | 67  | 152 | 26,728  | 32 |
| 23  |    |    |   | 27  | 5  | 32  | 126 | 25,910  | 33 |
| 30  |    | 1  |   | 37  |    | 37  | 115 | 25,584  | 34 |
| 32  |    |    |   | 41  | 3  | 44  | 147 | 25,275  | 35 |
|     | 2  | 1  | 1 | 61  | 12 | 73  | 162 | 25,013  | 36 |
| 34  |    | 2  |   | 43  | 8  | 51  | 108 | 23,740  | 37 |
| 37  | 1  | 1  |   | 48  | 8  | 56  | 87  | 22,836  | 38 |
| 33  |    | 1  |   | 45  | 3  | 48  | 68  | 22,414  | 39 |
| 20  |    |    |   | 22  | 2  | 24  | 220 | 22,038  | 40 |
| 28  |    |    |   | 31  | 3  | 34  | 125 | 21,429  | 41 |
| 26  |    | 1  |   | 34  | 3  | 37  | 123 | 19,367  | 42 |
| 80  | 1  | 2  | 1 | 95  | 12 | 107 | 41  | 19,004  | 43 |
| 45  |    | 2  |   | 62  | 4  | 66  | 69  | 18,259  | 44 |
| 42  |    | 1  |   | 49  | 11 | 60  | 51  | 17,875  | 45 |
| 22  |    |    |   | 25  | 3  | 28  | 107 | 16,983  | 46 |
| 10  |    |    |   | 11  | 1  | 12  | 213 | 14,324  | 47 |
|     | 1  | 1  |   | 49  | 10 | 59  | 54  | 13,739  | 48 |
| 30  |    |    |   | 37  | 3  | 40  | 77  | 13,499  | 49 |

Table 48—

## ST. CLAIR COUNTY—

| Number.                   | Name of operator.                      | Postoffice address or location of mine. | Number of employees |          |           |          |              |
|---------------------------|--|---|---------------------|----------|-----------|----------|--------------|
|                           |  |   | Cagers.             | Drivers. | Laborers. | Loaders. | Machine-men. |
| 50                        | Avery Coal Co.....                     | Freeburg.....                           | 1                   | 5        | 4         |          |              |
| 51                        | Sunlight Coal Co.....                  | do.....                                 | 1                   | 3        |           |          |              |
| 52                        | New National Coal & Mining Co.....     | Belleville.....                         | 1                   | 1        |           |          |              |
| 53                        | Southern Coal & Mining Co., No. 5..... | do.....                                 | 1                   | 1        | 1         |          |              |
| 54                        | Missouri and Illinois Coal Co.....     | Freeburg.....                           | 1                   | 3        | 1         |          |              |
| 55                        | Silver Creek Coal Co.....              | Mascoutah.....                          | 1                   | 2        | 3         | 18       | 2            |
| 56                        | Egyptian Coal & Mining Co.....         | Marissa.....                            | 1                   | 3        | 2         |          |              |
| 57                        | Golden Rule Coal Co.....               | Lenzburg.....                           |                     | 1        | 1         |          |              |
| 58                        | Eldmar Coal Co.....                    | Belleville.....                         | 1                   | 1        | 3         |          |              |
| Total.....                |  |   | 103                 | 386      | 407       | 1,241    | 360          |
| Total Ninth District..... |  |   | 103                 | 386      | 407       | 1,241    | 360          |

## JACKSON COUNTY—

|            |  |                   |    |    |    |     |    |
|------------|--|-------------------|----|----|----|-----|----|
| 1          | Big Muddy Coal & Iron Co., No. 9.....    | Murphysboro.....  |    |    |    |     |    |
| 2          | Muddy Valley Mining Co.....              | Hallidayboro..... | 5  | 17 |    | 18  |    |
| 3          | Big Muddy Coal & Iron Co., Harrison..... | Murphysboro.....  |    |    |    |     |    |
| 4          | Gartside Coal Co.....                    | do.....           | 2  | 14 | 6  | 26  | 12 |
| 5          | Gus Blair B. M. C. Co., No. 1.....       | do.....           | 1  | 6  |    | 48  | 16 |
| 6          | J. B. Kreikemeier.....                   | DeSoto.....       | 1  | 7  | 2  |     |    |
| 7          | Gus Blair B. M. C. Co., No. 2.....       | Murphysboro.....  | 1  | 3  | 2  | 25  | 10 |
| Total..... |  |                   | 10 | 47 | 10 | 117 | 38 |

## JEFFERSON COUNTY—

|   |                         |                 |   |   |   |  |  |
|---|-------------------------|-----------------|---|---|---|--|--|
| 1 | Mt. Vernon Coal Co..... | Mt. Vernon..... | 1 | 3 | 4 |  |  |
|---|-------------------------|-----------------|---|---|---|--|--|

## PERRY COUNTY—

|            |   |                    |    |     |    |     |     |
|------------|---|--------------------|----|-----|----|-----|-----|
| 1          | Willis Coal & Mining Co., No. 1.....    | Willisville.....   | 1  | 12  | 19 | 136 | 28  |
| 2          | Majestic Coal & Coke Co.....            | DuQuoin.....       |    |     |    |     |     |
| 3          | Paradise Coal Co.....                   | do.....            | 2  | 18  | 4  | 109 | 9   |
| 4          | DuQuoin Operating Co.....               | do.....            |    |     |    |     |     |
| 5          | Security Coal & Mining Co.....          | do.....            | 2  | 12  | 4  | 105 | 16  |
| 6          | Missouri and Illinois Coal Co.....      | Willisville.....   | 3  | 11  | 4  | 90  | 18  |
| 7          | Ritchey Coal Co.....                    | Pinckneyville..... | 2  | 5   | 2  | 78  | 20  |
| 8          | Brilliant Coal & Coke Co.....           | DuQuoin.....       | 4  | 10  | 6  | 4   | 2   |
| 9          | Bald Eagle Mining Co.....               | Craig.....         | 2  | 8   | 6  | 14  | 9   |
| 10         | St. Louis and Coulterville Coal Co..... | Coulterville.....  | 1  | 5   | 3  |     |     |
| 11         | Johnson Allen Coal Co.....              | Cutter.....        | 1  | 5   | 2  |     |     |
| 12         | Little Muddy Fuel Co.....               | Tamaroa.....       | 2  | 8   |    |     |     |
| 13         | Bessmer Coal & Mining Co.....           | Pinckneyville..... | 2  | 10  | 4  |     |     |
| 14         | Bailey Bros. Coal Co., Diamond.....     | Sunfield.....      | 1  | 3   | 1  |     |     |
| 15         | Wilson Coal Co.....                     | Cutler.....        | 1  | 2   |    |     |     |
| 16         | Joe Morris Coal Co.....                 | DuQuoin.....       | 1  | 1   |    |     |     |
| 17         | Bailey Bros. Coal Co., No. 3.....       | Sunfield.....      | 1  | 3   |    |     |     |
| 18         | Strait Coal Co.....                     | Pinckneyville..... | 1  | 1   |    |     |     |
| 19         | Orion Coal Co.....                      | DuQuoin.....       |    |     | 5  |     |     |
| Total..... |   |                    | 28 | 114 | 60 | 536 | 101 |

Continued.

NINTH DISTRICT—*Concluded.*

| in each occupation. |                 |                |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| 30                  | .....           | .....          | .....          | 40                        | 2                            | 42                                      | 70                                 | 12,865                       | 50      |
| 26                  | .....           | 1              | .....          | 31                        | 3                            | 34                                      | 61                                 | 10,886                       | 51      |
| 10                  | .....           | .....          | .....          | 11                        | 3                            | 14                                      | 107                                | 8,992                        | 52      |
| 12                  | .....           | .....          | .....          | 14                        | 3                            | 17                                      | 88                                 | 8,748                        | 53      |
| 18                  | .....           | 1              | .....          | 24                        | 1                            | 25                                      | 71                                 | 8,133                        | 54      |
| .....               | .....           | 1              | .....          | 27                        | 3                            | 30                                      | 76                                 | 7,824                        | 55      |
| 20                  | .....           | 1              | .....          | 27                        | 3                            | 30                                      | 26                                 | 4,124                        | 56      |
| 12                  | .....           | .....          | .....          | 14                        | 3                            | 17                                      | 119                                | 3,042                        | 57      |
| 4                   | .....           | .....          | .....          | 9                         | 2                            | 11                                      | 105                                | 2,147                        | 58      |
| 2,490               | 65              | 134            | 44             | 5,230                     | 471                          | 5,701                                   | 130                                | 4,409,341                    |         |
| 2,490               | 65              | 134            | 44             | 5,230                     | 471                          | 5,701                                   | 130                                | 4,409,341                    |         |

## TENTH DISTRICT.

|     |       |       |       |     |     |       |     |         |   |
|-----|-------|-------|-------|-----|-----|-------|-----|---------|---|
| 152 | ..... | ..... | ..... | 152 | 93  | 245   | 167 | 216,445 | 1 |
| 132 | 4     | 5     | 10    | 191 | 55  | 246   | 139 | 173,342 | 2 |
| 130 | ..... | ..... | ..... | 130 | 81  | 211   | 125 | 114,271 | 3 |
| 18  | 6     | 2     | 3     | 89  | 16  | 105   | 180 | 68,977  | 4 |
| 2   | 1     | 1     | 1     | 76  | 20  | 96    | 197 | 64,189  | 5 |
| 100 | ..... | 1     | 1     | 112 | 5   | 117   | 92  | 26,749  | 6 |
| 2   | 1     | 1     | ..... | 45  | 6   | 51    | 210 | 23,984  | 7 |
| 536 | 12    | 10    | 15    | 795 | 276 | 1,071 | 159 | 687,857 |   |

## TENTH DISTRICT.

|    |   |   |       |    |    |    |     |       |   |
|----|---|---|-------|----|----|----|-----|-------|---|
| 20 | 3 | 2 | ..... | 33 | 12 | 45 | 143 | 7,958 | 1 |
|----|---|---|-------|----|----|----|-----|-------|---|

## TENTH DISTRICT.

|       |       |       |       |       |       |       |     |           |    |
|-------|-------|-------|-------|-------|-------|-------|-----|-----------|----|
| ..... | ..... | 7     | 6     | 209   | 27    | 236   | 218 | 222,541   | 1  |
| 300   | ..... | ..... | ..... | 300   | 90    | 390   | 92  | 176,038   | 2  |
| 50    | 4     | 4     | 6     | 206   | 4     | 210   | 114 | 173,789   | 3  |
| 165   | ..... | ..... | ..... | 165   | 70    | 235   | 132 | 169,416   | 4  |
| ..... | 6     | 4     | 3     | 152   | 81    | 233   | 154 | 130,575   | 5  |
| ..... | ..... | 3     | 3     | 132   | 4     | 136   | 179 | 128,712   | 6  |
| ..... | 2     | 2     | 1     | 112   | 10    | 122   | 206 | 92,612    | 7  |
| 90    | ..... | 2     | 3     | 121   | 8     | 129   | 150 | 61,780    | 8  |
| 98    | 1     | 1     | 1     | 139   | 10    | 149   | 182 | 57,498    | 9  |
| 50    | ..... | ..... | ..... | 59    | 12    | 71    | 101 | 37,192    | 10 |
| 50    | ..... | ..... | ..... | 58    | ..... | 110   | 110 | 37,000    | 11 |
| 68    | ..... | 2     | 2     | 83    | 15    | 98    | 61  | 22,780    | 12 |
| 137   | ..... | 4     | 1     | 158   | 28    | 186   | 23  | 18,002    | 13 |
| 30    | ..... | 1     | ..... | 36    | 4     | 40    | 133 | 16,531    | 14 |
| 21    | ..... | ..... | ..... | 24    | 3     | 27    | 175 | 22,130    | 15 |
| 17    | ..... | ..... | ..... | 19    | 3     | 22    | 205 | 11,983    | 16 |
| 18    | ..... | 1     | ..... | 23    | 2     | 25    | 113 | 10,115    | 17 |
| 6     | ..... | ..... | ..... | 8     | 2     | 10    | 105 | 3,846     | 18 |
| 20    | ..... | ..... | ..... | 25    | ..... | 25    | 20  | 2,400     | 19 |
| 1,120 | 13    | 31    | 26    | 2,029 | 373   | 2,402 | 130 | 1,394,940 |    |

Table 48—

## RANDOLPH COUNTY—

| Number.    | Name of operator.                      | Postoffice address or location of mine. | Number of employees |          |           |          |              |
|------------|--|---|---------------------|----------|-----------|----------|--------------|
|            |  |   | Cagers.             | Drivers. | Laborers. | Loaders. | Machine-men. |
| 1          | Willis Coal & Mining Co., No. 6.....   | Percy.....                              | 2                   | 10       | 5         | 139      | 26           |
| 2          | Wilson Bros. Coal Co.....              | Sparta.....                             | 2                   | 6        | .....     | 42       | 6            |
| 3          | Illinois Fuel Co.....                  | do.....                                 | 2                   | 15       | 6         | .....    | 14           |
| 4          | Moffatt Coal Co.....                   | do.....                                 | 2                   | 20       | 4         | 75       | 31           |
| 5          | Jones Bros. Coal & Mining Co.....      | Marissa.....                            | 2                   | 7        | 10        | .....    | .....        |
| 6          | Randolph County Coal Mining Co.....    | Coulterville.....                       | 2                   | 6        | 3         | .....    | .....        |
| 7          | Bessemer Coal & Mining Co., No. 1..... | Tilden.....                             | 3                   | 10       | 3         | .....    | .....        |
| 8          | Boyd Coal & Coke Co.....               | Sparta.....                             | 2                   | 3        | 3         | .....    | .....        |
| 9          | Bessemer Coal & Mining Co., No. 2..... | Tilden.....                             | 2                   | 9        | 1         | .....    | .....        |
| 10         | West Mine Coal Co.....                 | Coulterville.....                       | 2                   | 3        | 2         | .....    | .....        |
| Total..... |  |   | 21                  | 89       | 37        | 256      | 77           |

## WASHINGTON COUNTY—

|                           |                        |                |    |     |       |       |       |
|---------------------------|------------------------|----------------|----|-----|-------|-------|-------|
| 1                         | Centralia Coal Co..... | Centralia..... | 4  | 1   | 12    | 24    | 8     |
| 2                         | Nicholson Coal Co..... | Nashville..... | 1  | 5   | ..... | ..... | ..... |
| 3                         | Adam Kuhn.....         | Du Bois.....   | 1  | 4   | 2     | ..... | ..... |
| Total.....                |                        |                | 6  | 10  | 14    | 24    | 8     |
| Total Tenth District..... |                        |                | 66 | 263 | 125   | 933   | 224   |

## FRANKLIN COUNTY—

|            |                                      |                   |    |       |       |       |       |
|------------|--------------------------------------|-------------------|----|-------|-------|-------|-------|
| 1          | United Coal Mining Co., No. 1.....   | Christopher.....  | 2  | 10    | 6     | 250   | 40    |
| 2          | Zeigler District Col. Co.....        | do.....           | 2  | 15    | 34    | 215   | 34    |
| 3          | Sesser Coal Co.....                  | Sesser.....       | 8  | ..... | ..... | 180   | 54    |
| 4          | Bell-Zoller Mining Co.....           | Zeigler.....      | 9  | ..... | 88    | 240   | 38    |
| 5          | Benton Coal Co.....                  | Benton.....       | 4  | 20    | 12    | 175   | 32    |
| 6          | Hart-Williams Coal Co.....           | do.....           | 3  | 18    | 87    | ..... | 36    |
| 7          | W. P. Rend Col. Co.....              | Rend.....         | 4  | 15    | 21    | 150   | 30    |
| 8          | Dering Coal Co., No. 11.....         | W. Frankfort..... | 2  | 14    | 20    | 180   | 50    |
| 9          | Franklin Coal & Coke Co.....         | Royalton.....     | 6  | 12    | 6     | 153   | 34    |
| 10         | So. Illinois Coal & Coke Co.....     | Herrin.....       | 3  | 14    | 8     | 129   | 28    |
| 11         | Ohio Valley Coal Co.....             | W. Frankfort..... | 3  | ..... | ..... | 112   | 22    |
| 12         | Dering Coal Co., No. 18.....         | do.....           | 2  | 9     | 7     | 86    | 41    |
| 13         | Carroll & Franklin Cos. Coal Co..... | Hanaford.....     | 3  | 6     | 4     | 75    | 12    |
| 14         | United Coal Mining Co., No. 2.....   | Christopher.....  | 5  | 6     | ..... | 32    | 8     |
| 15         | B. M. Carterville Mining Co.....     | Royalton.....     | 2  | 4     | 56    | 2     | ..... |
| 16         | W. Frankfort Coal Co.....            | W. Frankfort..... | 1  | 1     | ..... | ..... | ..... |
| Total..... |                                      |                   | 59 | 144   | 349   | 1,979 | 459   |

## GALLATIN COUNTY—

|            |                              |               |       |    |       |       |       |
|------------|------------------------------|---------------|-------|----|-------|-------|-------|
| 1          | Gallatin Coal & Coke Co..... | Equality..... | 1     | 5  | 1     | ..... | ..... |
| 2          | Hickory Hill Coal Co.....    | do.....       | ..... | 6  | 2     | ..... | ..... |
| 3          | Crescent Coal Co.....        | do.....       | 1     | 3  | ..... | 14    | 6     |
| Total..... |                              |               | 2     | 14 | 3     | 14    | 6     |

Continued.

## TENTH DISTRICT.

| in each occupation. |                 |                |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| .....               | 2               | 5              | 4              | 193                       | 28                           | 221                                     | 180                                | 188,779                      | 1       |
| 37                  | .....           | 4              | .....          | 97                        | 8                            | 105                                     | 232                                | 112,312                      | 2       |
| 90                  | 1               | 4              | 4              | 136                       | 14                           | 150                                     | 132                                | 97,508                       | 3       |
| .....               | .....           | 3              | 1              | 136                       | 3                            | 139                                     | 143                                | 89,964                       | 4       |
| 95                  | .....           | 2              | 1              | 117                       | .....                        | 117                                     | 122                                | 88,340                       | 5       |
| 58                  | .....           | 1              | 1              | 71                        | 6                            | 77                                      | 158                                | 55,006                       | 6       |
| 88                  | 1               | 3              | 3              | 111                       | 10                           | 121                                     | 47                                 | 39,291                       | 7       |
| 50                  | .....           | 3              | .....          | 61                        | 9                            | 70                                      | 191                                | 37,951                       | 8       |
| 60                  | .....           | 2              | 1              | 75                        | 13                           | 88                                      | 35                                 | 20,311                       | 9       |
| 26                  | .....           | 1              | 1              | 35                        | 4                            | 39                                      | 102                                | 15,044                       | 10      |
| 504                 | 4               | 28             | 16             | 1,032                     | 95                           | 1,127                                   | 134                                | 744,506                      |         |

## TENTH DISTRICT.

|       |       |       |       |       |     |       |     |           |   |
|-------|-------|-------|-------|-------|-----|-------|-----|-----------|---|
| 200   | 4     | 12    | 6     | 271   | 18  | 289   | 83  | 152,961   | 1 |
| 50    | ..... | 2     | ..... | 58    | 10  | 68    | 148 | 17,842    | 2 |
| 45    | ..... | ..... | ..... | 52    | 7   | 59    | 117 | 17,280    | 3 |
| 295   | 4     | 14    | 6     | 381   | 35  | 416   | 116 | 188,083   |   |
| 2,475 | 36    | 85    | 63    | 4,270 | 791 | 5,061 | 135 | 3,023,344 |   |

## ELEVENTH DISTRICT.

|       |       |       |       |       |       |       |     |           |    |
|-------|-------|-------|-------|-------|-------|-------|-----|-----------|----|
| 45    | 10    | 22    | 10    | 395   | 97    | 492   | 248 | 524,163   | 1  |
| 45    | 1     | 14    | 8     | 368   | 29    | 397   | 236 | 475,386   | 2  |
| ..... | 15    | 14    | 6     | 277   | 66    | 343   | 226 | 424,449   | 3  |
| ..... | 6     | 12    | 4     | 397   | 43    | 440   | 208 | 423,687   | 4  |
| 75    | 12    | 16    | 10    | 356   | 44    | 400   | 188 | 382,465   | 5  |
| 278   | 8     | 8     | 10    | 448   | 15    | 463   | 162 | 332,350   | 6  |
| ..... | 14    | 7     | 3     | 244   | 51    | 295   | 221 | 267,441   | 7  |
| ..... | 6     | 6     | 5     | 283   | 48    | 331   | 169 | 221,906   | 8  |
| 38    | ..... | 8     | 5     | 262   | 46    | 308   | 214 | 212,112   | 9  |
| ..... | 2     | 6     | 5     | 196   | 19    | 214   | 223 | 206,918   | 10 |
| ..... | ..... | 4     | 2     | 143   | 60    | 203   | 167 | 197,773   | 11 |
| ..... | 6     | 4     | 4     | 159   | 45    | 204   | 164 | 118,637   | 12 |
| ..... | 4     | 4     | 3     | 111   | 20    | 131   | 173 | 99,540    | 13 |
| ..... | 1     | 9     | 1     | 62    | 32    | 94    | 234 | 69,985    | 14 |
| 65    | 2     | 2     | 2     | 135   | ..... | 135   | 174 | 58,602    | 15 |
| 8     | ..... | ..... | ..... | 10    | 12    | 22    | 270 | 11,401    | 16 |
| 554   | 87    | 136   | 78    | 3,845 | 627   | 4,472 | 205 | 4,026,815 |    |

## ELEVENTH DISTRICT.

|       |       |   |       |     |    |     |     |        |   |
|-------|-------|---|-------|-----|----|-----|-----|--------|---|
| 40    | ..... | 2 | ..... | 49  | 1  | 50  | 174 | 28,439 | 1 |
| 40    | ..... | 2 | ..... | 50  | 3  | 53  | 155 | 19,225 | 2 |
| ..... | 1     | 1 | ..... | 26  | 6  | 32  | 136 | 15,463 |   |
| 80    | 1     | 5 | ..... | 125 | 10 | 135 | 155 | 63,127 |   |

Table 48—

## SALINE COUNTY—

| Number.    | Name of operator.                        | Postoffice address or location of mine. | Number of employees |          |           |          |              |
|------------|--|---|---------------------|----------|-----------|----------|--------------|
|            |  |   | Cagers.             | Drivers. | Laborers. | Loaders. | Machine-men. |
| 1          | O'Gara Coal Co., No. 9.....              | Harrisburg.....                         | 5                   | 34       | .....     | 216      | 44           |
| 2          | Saline County Coal Co., No. 2.....       | Ledford.....                            | 5                   | 32       | 28        | 258      | 32           |
| 3          | O'Gara Coal Co., No. 3.....              | Harrisburg.....                         | 4                   | 37       | .....     | 166      | 40           |
| 4          | O'Gara Coal Co., No. 1.....              | do.....                                 | 8                   | 25       | .....     | 114      | 26           |
| 5          | O'Gara Coal Co., No. 10.....             | do.....                                 | 2                   | 19       | .....     | 122      | 26           |
| 6          | Harrisburg-Southern Coal Co., No. 1..... | Eldorado.....                           | 2                   | 11       | 12        | .....    | .....        |
| 7          | Wasson Coal Co., No. 1.....              | Harrisburg.....                         | 2                   | 26       | 20        | 171      | 27           |
| 8          | O'Gara Coal Co., No. 4.....              | do.....                                 | 2                   | 29       | .....     | 135      | 30           |
| 9          | O'Gara Coal Co., No. 14.....             | do.....                                 | 3                   | 24       | .....     | 139      | 28           |
| 10         | Saline County Coal Co., No. 3.....       | do.....                                 | 3                   | 14       | 12        | 162      | 22           |
| 11         | Eldorado Coal Mining Co., No. 1.....     | Eldorado.....                           | 1                   | 20       | 36        | .....    | 8            |
| 12         | O'Gara Coal Co., No. 15.....             | Harrisburg.....                         | 3                   | 19       | .....     | 97       | 18           |
| 13         | O'Gara Coal Co., No. 11.....             | do.....                                 | 3                   | 15       | .....     | 85       | 20           |
| 14         | Saline County Coal Co., No. 1.....       | Ledford.....                            | 3                   | 17       | 15        | 91       | 12           |
| 15         | O'Gara Coal Co., No. 7.....              | Harrisburg.....                         | 3                   | 9        | .....     | 78       | 14           |
| 16         | O'Gara Coal Co., No. 8.....              | do.....                                 | 3                   | 14       | .....     | 71       | 18           |
| 17         | O'Gara Coal Co., No. 12.....             | do.....                                 | 2                   | 10       | .....     | 44       | 12           |
| 18         | St. Louis Coal & Coke Co.....            | Galatia.....                            | 1                   | 3        | 10        | .....    | .....        |
| Total..... |  |   | 55                  | 358      | 133       | 1,949    | 377          |

## WHITE COUNTY—

|                              |                          |                  |     |     |     |       |     |
|------------------------------|--------------------------|------------------|-----|-----|-----|-------|-----|
| 1                            | Norris City Coal Co..... | Norris City..... | 1   | 4   | 7   | ..... | 6   |
| Total Eleventh District..... |                          |                  | 117 | 520 | 492 | 3,942 | 848 |

## WILLIAMSON COUNTY—

|    |  |                    |   |    |       |       |       |
|----|--|--------------------|---|----|-------|-------|-------|
| 1  | Big Muddy Coal & Iron Co., No. 8.....        | Clifford.....      | 2 | 23 | 10    | 198   | 70    |
| 2  | Johnston City Coal Co.....                   | Johnston City..... | 2 | 18 | 12    | 90    | 16    |
| 3  | Madison Coal Corp. No. 9.....                | Dewmaine.....      | 6 | 24 | 30    | 36    | 4     |
| 4  | Chicago-Carterville Coal Co., A.....         | Herrin.....        | 2 | 24 | 46    | 204   | 68    |
| 5  | Sunnyside Coal Co.....                       | do.....            | 2 | 21 | 6     | 80    | 20    |
| 6  | Western Coal Mining Co.....                  | Bush.....          | 4 | 19 | 30    | ..... | ..... |
| 7  | Big Muddy Coal & Iron Co., No. 7.....        | Herrin.....        | 5 | 19 | 7     | ..... | ..... |
| 8  | W. P. Rend Coal & Coke Co.....               | do.....            | 3 | 17 | 18    | 170   | 33    |
| 9  | Madison Coal Corp., No. 8.....               | Dewmaine.....      | 4 | 20 | 30    | ..... | ..... |
| 10 | Peabody Coal Co., No. 2.....                 | Marion.....        | 2 | 12 | 20    | ..... | ..... |
| 11 | Taylor Coal Co., No. 2.....                  | Herrin.....        | 2 | 14 | 40    | ..... | ..... |
| 12 | Peabody Coal Co., No. 3.....                 | Marion.....        | 3 | 20 | 40    | ..... | ..... |
| 13 | Carterville Coal Co.....                     | Carterville.....   | 2 | 18 | 12    | ..... | ..... |
| 14 | Chicago & B. M. C. Co.....                   | Marion.....        | 2 | 13 | 28    | ..... | ..... |
| 15 | Hafer Washed Coal Co.....                    | Carterville.....   | 1 | 17 | 5     | ..... | ..... |
| 16 | Chicago & Carterville, B.....                | Herrin.....        | 2 | 18 | 20    | ..... | ..... |
| 17 | West Va. Coal Co.....                        | Marion.....        | 3 | 8  | ..... | ..... | 14    |
| 18 | Southern Illinois Coal & Coke Co., O. R..... | Herrin.....        | 5 | 14 | 36    | 141   | ..... |
| 19 | Big Muddy Fuel Co.....                       | Johnston City..... | 2 | 9  | ..... | ..... | 14    |
| 20 | Carterville District Coal Co.....            | Marion.....        | 3 | 17 | 15    | ..... | 32    |
| 21 | Pond Creek Coal Co.....                      | Herrin.....        | 2 | 14 | 17    | 124   | 16    |
| 22 | Standard Col. Co.....                        | Johnston City..... | 2 | 11 | ..... | 100   | 22    |
| 23 | Carterville-Herrin Coal Co.....              | Herrin.....        | 3 | 14 | 4     | ..... | ..... |
| 24 | Williamson County Coal Co.....               | Johnston City..... | 3 | 21 | 8     | ..... | ..... |
| 25 | St. Louis-Carterville Coal Co.....           | Herrin.....        | 4 | 18 | 3     | ..... | ..... |
| 26 | Carterville & B. M. C. Co.....               | Cambria.....       | 2 | 9  | 2     | ..... | ..... |
| 27 | Taylor Coal Co., No. 1.....                  | Herrin.....        | 1 | 13 | 10    | ..... | ..... |
| 28 | Watson Coal Co.....                          | do.....            | 3 | 10 | ..... | ..... | ..... |
| 29 | Southern Ill. Coal & Coke Co., Hemlock.....  | do.....            | 2 | 7  | 14    | ..... | ..... |

Continued.

## ELEVENTH DISTRICT.

| in each occupation. |                 |                |                | Total<br>clas-<br>sified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |   |                                    |                              |         |
| .....               | 4               | 9              | 10             | 322                       | 134                          | 456                                     | 230                                | 523,583                      | 1       |
| .....               | 14              | 14             | 4              | 387                       | 72                           | 459                                     | 238                                | 498,223                      | 2       |
| .....               | 3               | 8              | 9              | 267                       | 161                          | 428                                     | 200                                | 383,685                      | 3       |
| .....               | 2               | 9              | 4              | 188                       | 80                           | 268                                     | 243                                | 286,318                      | 4       |
| .....               | 2               | 8              | 6              | 185                       | 115                          | 300                                     | 207                                | 265,945                      | 5       |
| 125                 | 4               | 4              | 6              | 164                       | 14                           | 178                                     | 254                                | 265,136                      | 6       |
| .....               | 2               | 7              | 3              | 258                       | .....                        | 258                                     | 249                                | 259,421                      | 7       |
| .....               | 3               | 5              | 6              | 210                       | 82                           | 292                                     | 190                                | 244,900                      | 8       |
| .....               | 5               | 9              | 9              | 217                       | 102                          | 319                                     | 189                                | 238,076                      | 9       |
| .....               | 5               | 14             | .....          | 232                       | 54                           | 286                                     | 260                                | 235,326                      | 10      |
| 152                 | 3               | 8              | 4              | 232                       | 2                            | 234                                     | 235                                | 231,966                      | 11      |
| .....               | 1               | 6              | 6              | 150                       | 65                           | 215                                     | 206                                | 193,151                      | 12      |
| .....               | 1               | 5              | 2              | 131                       | 117                          | 248                                     | 160                                | 134,619                      | 13      |
| .....               | 3               | 4              | 4              | 149                       | 25                           | 174                                     | 215                                | 105,667                      | 14      |
| .....               | 2               | 7              | 5              | 118                       | 64                           | 182                                     | 135                                | 91,008                       | 15      |
| .....               | 2               | 4              | 4              | 116                       | 69                           | 185                                     | 92                                 | 68,228                       | 16      |
| .....               | 1               | 4              | 4              | 77                        | 52                           | 129                                     | 96                                 | 31,504                       | 17      |
| 25                  | 2               | 2              | .....          | 43                        | 5                            | 48                                      | 90                                 | 20,000                       | 18      |
| 302                 | 59              | 127            | 86             | 3,446                     | 1,213                        | 4,659                                   | 194                                | 4,076,756                    |         |

## ELEVENTH DISTRICT.

|     |     |     |       |       |       |       |     |           |   |
|-----|-----|-----|-------|-------|-------|-------|-----|-----------|---|
| 30  | 1   | 2   | ..... | 51    | 4     | 55    | 155 | 31,774    | 1 |
| 966 | 148 | 270 | 164   | 7,467 | 1,854 | 9,321 | 194 | 8,198,472 |   |

## TWELFTH DISTRICT.

|       |       |    |       |     |    |     |     |         |    |
|-------|-------|----|-------|-----|----|-----|-----|---------|----|
| ..... | 8     | 10 | 5     | 326 | 40 | 366 | 231 | 570,695 | 1  |
| 280   | 8     | 9  | 5     | 440 | 26 | 466 | 240 | 540,236 | 2  |
| 300   | 15    | 15 | 7     | 437 | 13 | 450 | 178 | 423,556 | 3  |
| 16    | 12    | 10 | 9     | 391 | 69 | 460 | 198 | 407,420 | 4  |
| 179   | 9     | 14 | 14    | 345 | 93 | 438 | 192 | 342,383 | 5  |
| 230   | 8     | 9  | 10    | 310 | 45 | 355 | 259 | 332,693 | 6  |
| 273   | 6     | 8  | 8     | 326 | 72 | 398 | 161 | 313,509 | 7  |
| ..... | 5     | 10 | 6     | 262 | 53 | 315 | 200 | 290,938 | 8  |
| 250   | 8     | 9  | 8     | 329 | 21 | 350 | 194 | 288,968 | 9  |
| 160   | 2     | 4  | 4     | 204 | 18 | 222 | 204 | 228,365 | 10 |
| 160   | 4     | 5  | 5     | 230 | 7  | 237 | 215 | 227,819 | 11 |
| 275   | 4     | 8  | 15    | 365 | 25 | 390 | 116 | 222,701 | 12 |
| 178   | 4     | 8  | 5     | 227 | 37 | 264 | 138 | 218,418 | 13 |
| 182   | 3     | 5  | 4     | 237 | 26 | 263 | 142 | 204,392 | 14 |
| 155   | 2     | 4  | 3     | 187 | 18 | 205 | 152 | 200,137 | 15 |
| 208   | 9     | 7  | 3     | 267 | 34 | 301 | 178 | 197,534 | 16 |
| 125   | 2     | 3  | ..... | 155 | 15 | 170 | 186 | 192,357 | 17 |
| ..... | 2     | 4  | 2     | 204 | 15 | 219 | 183 | 188,873 | 18 |
| 155   | 4     | 4  | 4     | 192 | 40 | 232 | 206 | 179,381 | 19 |
| 146   | 5     | 5  | 5     | 228 | 10 | 238 | 141 | 174,390 | 20 |
| 17    | 2     | 4  | 3     | 199 | 30 | 229 | 220 | 158,089 | 21 |
| ..... | 2     | 3  | 3     | 143 | 35 | 178 | 171 | 149,666 | 22 |
| 100   | 4     | 4  | 3     | 132 | 16 | 148 | 180 | 125,531 | 23 |
| 150   | 4     | 4  | 5     | 195 | 17 | 212 | 124 | 125,523 | 24 |
| 116   | 2     | 2  | 8     | 153 | 19 | 172 | 147 | 114,866 | 25 |
| 136   | 1     | 4  | 3     | 157 | 20 | 177 | 153 | 110,015 | 26 |
| 130   | 2     | 4  | 2     | 162 | 5  | 167 | 142 | 108,594 | 27 |
| 75    | ..... | 3  | 2     | 93  | 10 | 103 | 158 | 106,605 | 28 |
| 104   | ..... | 2  | 4     | 133 | 14 | 147 | 130 | 72,282  | 29 |

Table 48—

## WILLIAMSON COUNTY—

| Number.                      | Name of operator.               | Postoffice,<br>address or<br>location of mine. | Number of employees |          |           |          |              |
|------------------------------|---------------------------------|--|---------------------|----------|-----------|----------|--------------|
|                              |                                 |  | Cagers.             | Drivers. | Laborers. | Loaders. | Machine-men. |
| 30                           | Donally-Konecke .....           | Carterville .....                              | 2                   | 12       | 8         | .....    | .....        |
| 31                           | Scranton & B. M. C. M. Co. .... | Marion .....                                   | 2                   | 8        | 30        | 59       | 18           |
| 32                           | Robert Dick Coal Co. ....       | Cambria .....                                  | 4                   | 12       | 12        | .....    | .....        |
| 33                           | Pittsburg B. M. C. Co. ....     | Pittsburg .....                                | 1                   | 4        | .....     | .....    | 8            |
| 34                           | Watson Coal Co. ....            | Herrin .....                                   | 3                   | 6        | .....     | .....    | .....        |
| Total .....                  |                                 |  | 91                  | 504      | 513       | 1,202    | 335          |
| Total Twelfth District ..... |                                 |  | 91                  | 504      | 513       | 1,202    | 335          |

Table 49 is a recapitulation of Table 48 and shows the same items by

TABLE 49—*Recapitulation of the number of persons employed in the employed, average days of working*

| Districts.     | Number<br>of<br>mines. | Number of employees |          |           |          |              |
|----------------|------------------------|---------------------|----------|-----------|----------|--------------|
|                |                        | Cagers.             | Drivers. | Laborers. | Loaders. | Machine-men. |
| First .....    | 24                     | 52                  | 387      | 366       | 22       | .....        |
| Second .....   | 13                     | 37                  | 291      | 370       | .....    | 4            |
| Third .....    | 32                     | 43                  | 282      | 239       | 158      | 48           |
| Fourth .....   | 20                     | 42                  | 258      | 163       | 298      | 44           |
| Fifth .....    | 34                     | 61                  | 388      | 769       | 386      | 101          |
| Sixth .....    | 35                     | 99                  | 555      | 345       | 558      | 105          |
| Seventh .....  | 23                     | 77                  | 418      | 400       | 2,390    | 675          |
| Eighth .....   | 29                     | 92                  | 438      | 435       | 2,047    | 552          |
| Ninth .....    | 58                     | 103                 | 386      | 407       | 1,241    | 360          |
| Tenth .....    | 40                     | 66                  | 263      | 125       | 933      | 224          |
| Eleventh ..... | 38                     | 117                 | 520      | 492       | 3,942    | 848          |
| Twelfth .....  | 34                     | 91                  | 504      | 513       | 1,202    | 335          |
| Total .....    | 380                    | 880                 | 4,690    | 4,624     | 13,177   | 3,296        |



Concluded.

## TWELFTH DISTRICT—Concluded.

| in each occupation. |                 |                |                | Total<br>classified. | Number<br>not<br>classified. | Total<br>num-<br>ber<br>employ-<br>ees. | Number<br>of days in<br>operation. | Total<br>tons pro-<br>duced. | Number. |
|---------------------|-----------------|----------------|----------------|----------------------|------------------------------|---|------------------------------------|------------------------------|---------|
| Min-<br>ers.        | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                      |                              |   |                                    |                              |         |
| 96                  | 2               | 2              | 4              | 126                  | 9                            | 135                                     | 104                                | 71,734                       | 30      |
| 21                  | 1               | 2              | 2              | 143                  | -----                        | 143                                     | 145                                | 70,202                       | 31      |
| 100                 | 2               | 2              | 2              | 134                  | 16                           | 150                                     | 94                                 | 59,291                       | 32      |
| 60                  | 2               | 2              | -----          | 77                   | 15                           | 92                                      | 183                                | 38,363                       | 33      |
| 45                  | -----           | 3              | -----          | 57                   | 12                           | 69                                      | 9                                  | 3,095                        | 34      |
| 4,422               | 144             | 192            | 163            | 7,566                | 895                          | 8,461                                   | 167                                | 7,058,621                    |         |
| 4,422               | 144             | 192            | 163            | 7,566                | 895                          | 8,461                                   | 167                                | 7,058,621                    |         |

districts.

*different occupations in shipping mines of the State, the total number time and total tons produced—1912.*

| in each occupation. |                 |                |                | Total<br>classi-<br>fied. | Number<br>not<br>classified. | Total<br>number<br>of<br>employees. | Average<br>days in<br>operation. | Total tons<br>produced. |
|---------------------|-----------------|----------------|----------------|---------------------------|------------------------------|-------------------------------------|----------------------------------|-------------------------|
| Miners.             | Timber-<br>men. | Track-<br>men. | Trap-<br>pers. |                           |                              |                                     |                                  |                         |
| 3,978               | 67              | 88             | 44             | 5,004                     | 433                          | 5,437                               | 202                              | 2,351,330               |
| 3,270               | 45              | 35             | 92             | 4,144                     | 385                          | 4,529                               | 109                              | 2,051,523               |
| 3,364               | 66              | 72             | 55             | 4,327                     | 544                          | 4,871                               | 205                              | 2,767,346               |
| 2,207               | 53              | 84             | 56             | 3,205                     | 335                          | 3,540                               | 183                              | 2,333,758               |
| 4,128               | 139             | 111            | 125            | 6,208                     | 499                          | 6,707                               | 185                              | 5,002,440               |
| 5,152               | 169             | 199            | 159            | 7,341                     | 785                          | 8,126                               | 174                              | 5,928,518               |
| 2,004               | 168             | 215            | 164            | 6,511                     | 811                          | 7,322                               | 183                              | 7,170,963               |
| 2,389               | 157             | 163            | 153            | 6,426                     | 905                          | 7,331                               | 170                              | 5,801,039               |
| 2,490               | 65              | 134            | 44             | 5,230                     | 471                          | 5,701                               | 130                              | 4,409,341               |
| 2,475               | 36              | 85             | 63             | 4,270                     | 791                          | 5,061                               | 135                              | 3,023,344               |
| 966                 | 148             | 270            | 164            | 7,467                     | 1,854                        | 9,321                               | 194                              | 8,198,472               |
| 4,422               | 144             | 192            | 163            | 7,566                     | 895                          | 8,461                               | 167                              | 7,058,621               |
| 36,845              | 1,257           | 1,648          | 1,282          | 67,699                    | 8,708                        | 76,407                              | 172                              | 56,096,695              |

## PRICE PAID FOR MINING.

Table 50 shows by districts the tons mined by hand and by machine, with the average prices paid for mining. This year 42,305 tons were mined by machines in local mines. In the shipping mines there were cut by machines 5,551,800 tons more than last year, or an increase of more than 27 per cent.

TABLE 50—*Average price paid for mining by hand and by machine at shipping and local mines, by districts—1912.*

| Districts.     | Mining by hand. |                        |              |                        | Machine mining.           |                        |
|----------------|-----------------|------------------------|--------------|------------------------|---------------------------|------------------------|
|                | Shipping mines. |                        | Local mines. |                        | Shipping and local mines. |                        |
|                | Tons.           | Average price per ton. | Tons.        | Average price per ton. | Tons.                     | Average price per ton. |
| First.....     | 2,351,330       | \$0.881                | 254,426      | \$0.78                 | 6,800                     | Day work               |
| Second.....    | 2,042,023       | .838                   | 198,870      | .979                   | 9,500                     | \$0.525                |
| Third.....     | 2,514,888       | .761                   | 247,740      | .762                   | 252,458                   | .576                   |
| Fourth.....    | 1,938,225       | .655                   | 137,528      | .935                   | 395,533                   | .58                    |
| Fifth.....     | 4,089,709       | .594                   | 172,526      | .681                   | 912,731                   | .49                    |
| Sixth.....     | 5,087,728       | .596                   | 86,354       | .59                    | 840,790                   | .51                    |
| Seventh.....   | 1,566,468       | .58                    | 12,814       | .731                   | 5,621,969                 | .58                    |
| Eighth.....    | 2,103,994       | .576                   | 52,406       | .629                   | 3,698,245                 | .509                   |
| Ninth.....     | 2,189,769       | .58                    | 98,957       | .58                    | 2,227,862                 | .528                   |
| Tenth.....     | 1,338,219       | .553                   | 59,503       | .609                   | 1,693,706                 | .498                   |
| Eleventh.....  | 863,430         | .54                    | 22,312       | .675                   | 7,235,042                 | .469                   |
| Twelfth.....   | 4,503,198       | .54                    | 31,804       | .602                   | 2,555,423                 | .54                    |
| The State..... | 30,588,981      | \$0.636                | 1,375,240    | \$0.641                | 25,550,059                | \$0.496                |

Table 51 gives the record for twelve years of hand and machine mining, at shipping mines, of the tons produced and price per ton.

TABLE 51—*Total tonnage and average prices paid for hand and machine mining at shipping mines for a series of twelve years—1901-1912.*

| Years.    | Hand mining. |                | Machine mining. |                |
|-----------|--------------|----------------|-----------------|----------------|
|           | Tons.        | Price per ton. | Tons.           | Price per ton. |
| 1901..... | 20,172,779   | \$0.564        | 5,774,639       | \$0.412        |
| 1902..... | 22,186,812   | 0.564          | 6,647,086       | 0.395          |
| 1903..... | 26,042,104   | 0.57           | 7,646,777       | 0.434          |
| 1904..... | 28,648,682   | 0.593          | 7,130,835       | 0.466          |
| 1905..... | 27,762,968   | 0.578          | 8,193,575       | 0.443          |
| 1906..... | 27,566,480   | 0.57           | 9,563,230       | 0.442          |
| 1907..... | 31,854,488   | 0.592          | 14,490,454      | 0.479          |
| 1908..... | 32,604,716   | 0.593          | 15,210,403      | 0.467          |
| 1909..... | 31,556,456   | 0.593          | 16,407,692      | 0.46           |
| 1910..... | 29,048,947   | 0.597          | 18,176,254      | 0.462          |
| 1911..... | 28,769,398   | 0.627          | 19,998,259      | 0.494          |
| 1912..... | 30,588,981   | 0.636          | 25,550,059      | 0.496          |

Table 52 shows the earnings of miners in shipping mines where no machines are used. The same showing is made for the eleven prior years.

The average daily earnings of the miners is greater this year than for any year of the series.

TABLE 52—*Earnings of coal miners, hand mining exclusively, in shipping mines for the year ended June 30, 1912, by districts.*

| Districts.    | Number of miners. | Average days worked. | Total tons mined by hand. | Average rate per ton. | Gross earnings. | Average tons per man per year. | Average earnings per man per year. | Average tons per man per day. | Average earnings per man per day. |
|---------------|-------------------|----------------------|---------------------------|-----------------------|-----------------|--------------------------------|------------------------------------|-------------------------------|-----------------------------------|
| First.....    | 3,978             | 202                  | 2,351,330                 | \$0.881               | \$2,071,678     | 591.09                         | \$520.81                           | 2.93                          | \$2.58                            |
| Second.....   | 3,255             | 207                  | 2,038,483                 | .838                  | 1,707,706       | 626.26                         | 524.64                             | 3.03                          | 2.53                              |
| Third.....    | 3,261             | 201                  | 2,448,122                 | .768                  | 1,880,528       | 750.72                         | 576.67                             | 3.72                          | 2.87                              |
| Fourth.....   | 1,968             | 158                  | 1,823,234                 | .65                   | 1,185,111       | 926.44                         | 602.19                             | 5.86                          | 3.81                              |
| Fifth.....    | 3,480             | 179                  | 3,519,010                 | .594                  | 2,094,131       | 1,011.22                       | 601.13                             | 5.65                          | 3.36                              |
| Sixth.....    | 5,152             | 174                  | 5,087,728                 | .599                  | 3,030,579       | 987.52                         | 588.23                             | 5.67                          | 3.38                              |
| Seventh.....  | 1,137             | 149                  | 1,153,793                 | .58                   | 669,200         | 1,013.89                       | 588.89                             | 6.80                          | 3.95                              |
| Eighth.....   | 1,692             | 158                  | 1,794,184                 | .572                  | 1,026,535       | 1,060.39                       | 606.71                             | 6.71                          | 3.84                              |
| Ninth.....    | 2,335             | 124                  | 2,128,437                 | .58                   | 1,234,493       | 911.54                         | 528.69                             | 7.35                          | 4.26                              |
| Tenth.....    | 1,511             | 111                  | 1,026,447                 | .532                  | 545,990         | 679.31                         | 361.35                             | 6.12                          | 3.25                              |
| Eleventh..... | 178               | 180                  | 137,667                   | .54                   | 74,340          | 773.40                         | 417.64                             | 4.30                          | 2.32                              |
| Twelfth.....  | 2,963             | 139                  | 3,103,706                 | .54                   | 1,676,001       | 1,047.49                       | 565.64                             | 7.54                          | 4.07                              |
| The State..   | 30,910            | 166                  | 26,612,141                | \$0.687               | \$17,196,294    | 860.96                         | 556.33                             | 5.18                          | \$3.35                            |
| 1911.....     | 30,754            | 167                  | 24,026,071                | .638                  | 15,318,388      | 781.23                         | 498.09                             | 4.68                          | 2.98                              |
| 1910.....     | 32,061            | 168                  | 26,481,377                | .603                  | 15,956,930      | 825.97                         | 497.71                             | 4.92                          | 2.96                              |
| 1909.....     | 33,053            | 180                  | 27,996,351                | .603                  | 16,878,751      | 847.00                         | 510.66                             | 4.71                          | 2.84                              |
| 1908.....     | 32,606            | 188                  | 29,538,900                | .604                  | 17,834,410      | 906.00                         | 546.97                             | 4.82                          | 2.91                              |
| 1907.....     | 22,186            | 209                  | 30,796,283                | .592                  | 18,231,400      | 927.99                         | 549.39                             | 4.44                          | 2.63                              |
| 1906.....     | 30,742            | 189                  | 25,628,945                | .570                  | 14,767,153      | 833.68                         | 480.86                             | 4.40                          | 2.54                              |
| 1905.....     | 31,185            | 198                  | 26,566,481                | .578                  | 15,353,039      | 851.90                         | 492.32                             | 4.29                          | 2.48                              |
| 1904.....     | 28,717            | 213                  | 27,091,501                | .598                  | 16,233,869      | 943.39                         | 565.30                             | 4.42                          | 2.65                              |
| 1903.....     | 25,878            | 224                  | 24,455,225                | .569                  | 14,043,280      | 944.63                         | 542.67                             | 4.22                          | 2.42                              |
| 1902.....     | 24,229            | 209                  | 20,616,155                | .564                  | 11,638,120      | 850.88                         | 480.34                             | 4.06                          | 2.29                              |
| 1901.....     | 22,206            | 203                  | 18,227,130                | .569                  | 10,372,670      | 821.00                         | 467.11                             | 4.04                          | 2.30                              |

## MACHINE MINING.

Table 53 is a record of machine mining by districts. There were in use during the year 1,581 machines and the tonnage cut was 25,550,059. This is an increase over last year of mines using machines, 13; machines in use, 151; tons cut, 5,551,800.

TABLE 53—*Machine mining—mines, men, machines, tons, by districts.*

| Districts.     | Mines in which machines are used— |        |           |            |          |           |           |        |           |            |
|----------------|-----------------------------------|--------|-----------|------------|----------|-----------|-----------|--------|-----------|------------|
|                | Exclusively.                      |        |           |            | In part. |           |           | Total. |           |            |
|                | Mines.                            | Men.   | Machines. | Tons.      | Mines.   | Machines. | Tons.     | Mines. | Machines. | Tons.      |
| First.....     |                                   |        |           |            | 1        | 1         | 6,800     | 1      | 1         | 6,800      |
| Second.....    |                                   |        |           |            | 1        | 2         | 9,500     | 1      | 2         | 9,500      |
| Third.....     | 3                                 | 265    | 15        | 192,923    | 2        | 6         | 59,535    | 5      | 21        | 252,458    |
| Fourth.....    |                                   |        |           |            | 3        | 23        | 395,533   | 3      | 23        | 395,533    |
| Fifth.....     | 2                                 | 330    | 15        | 228,942    | 5        | 36        | 683,789   | 7      | 51        | 912,731    |
| Sixth.....     | 2                                 | 1,039  | 29        | 840,790    |          |           |           | 2      | 29        | 840,790    |
| Seventh.....   | 13                                | 4,894  | 291       | 5,350,321  | 4        | 32        | 271,648   | 17     | 323       | 5,621,969  |
| Eighth.....    | 10                                | 3,629  | 171       | 3,185,955  | 6        | 64        | 512,290   | 16     | 235       | 3,698,245  |
| Ninth.....     | 11                                | 1,589  | 117       | 1,544,634  | 6        | 61        | 683,228   | 17     | 178       | 2,227,862  |
| Tenth.....     | 8                                 | 1,547  | 79        | 1,152,695  | 10       | 51        | 541,011   | 18     | 130       | 1,693,706  |
| Eleventh.....  | 16                                | 3,973  | 162       | 3,278,072  | 17       | 228       | 4,056,970 | 33     | 390       | 7,335,042  |
| Twelfth.....   | 4                                 | 1,097  | 78        | 1,185,689  | 15       | 120       | 1,369,734 | 19     | 198       | 2,555,423  |
| The State..... | 69                                | 18,363 | 957       | 16,960,021 | 70       | 624       | 8,590,038 | 139    | 1,581     | 25,550,059 |

Table 54 gives the record of machine mining for thirteen years.

TABLE 54—*Machine mining—mines, men, machines, tons, for thirteen years.*

| Year.     | Mines in which machines are used— |        |           |            |          |           |           |        |           |            |
|-----------|-----------------------------------|--------|-----------|------------|----------|-----------|-----------|--------|-----------|------------|
|           | Exclusively.                      |        |           |            | In part. |           |           | Total. |           |            |
|           | Mines.                            | Men.   | Machines. | Tons.      | Mines.   | Machines. | Tons.     | Mines. | Machines. | Tons.      |
| 1900..... | 38                                | 3,883  | 272       | 3,765,601  | 29       | 158       | 1,817,993 | 67     | 430       | 5,583,594  |
| 1901..... | 29                                | 3,499  | 280       | 3,761,270  | 34       | 184       | 2,015,369 | 63     | 464       | 5,774,639  |
| 1902..... | 34                                | 4,811  | 308       | 4,460,025  | 30       | 156       | 2,037,098 | 64     | 464       | 6,497,123  |
| 1903..... | 33                                | 4,378  | 292       | 4,393,052  | 35       | 230       | 3,253,725 | 68     | 522       | 7,646,777  |
| 1904..... | 40                                | 3,691  | 400       | 4,903,184  | 27       | 223       | 2,237,243 | 67     | 623       | 7,140,427  |
| 1905..... | 52                                | 4,635  | 560       | 6,406,571  | 24       | 224       | 1,795,495 | 76     | 784       | 8,202,066  |
| 1906..... | 57                                | 6,137  | 685       | 7,638,536  | 28       | 277       | 1,924,694 | 85     | 962       | 9,563,230  |
| 1907..... | 60                                | 6,858  | 748       | 10,434,573 | 41       | 357       | 4,055,881 | 101    | 1,105     | 14,490,454 |
| 1908..... | 60                                | 12,357 | 754       | 11,246,285 | 45       | 406       | 3,964,138 | 105    | 1,160     | 15,210,423 |
| 1909..... | 55                                | 12,258 | 771       | 10,637,513 | 52       | 475       | 5,770,179 | 107    | 1,246     | 16,407,692 |
| 1910..... | 61                                | 14,454 | 839       | 12,474,471 | 53       | 450       | 5,701,783 | 114    | 1,289     | 18,176,254 |
| 1911..... | 60                                | 14,754 | 854       | 12,625,625 | 66       | 576       | 7,372,634 | 126    | 1,430     | 19,998,259 |
| 1912..... | 69                                | 18,363 | 957       | 16,960,021 | 70       | 624       | 8,590,038 | 139    | 1,581     | 25,550,059 |

Table 55. The name and number of machines in use is given in this table by districts.

TABLE 55—*Name and number of mining machines in use, by districts—1912.*

| District.      | Sullivan. | Morgan-Gardner. | Goodman. | Ingersoll. | Harrison. | Jeffrey. | Ingersoll-Sargent. | Herzler & Heninger. | Whitcomb. | General Electric. | Total. |
|----------------|-----------|-----------------|----------|------------|-----------|----------|--------------------|---------------------|-----------|-------------------|--------|
| First.....     |           |                 |          |            |           |          |                    |                     | 1         |                   | 1      |
| Second.....    | 1         | 1               |          |            |           |          |                    |                     |           |                   | 2      |
| Third.....     | 3         | 12              |          |            |           | 6        |                    |                     |           |                   | 21     |
| Fourth.....    |           | 21              |          |            |           | 2        |                    |                     |           |                   | 23     |
| Fifth.....     | 22        | 7               | 11       |            |           | 11       |                    |                     |           |                   | 51     |
| Sixth.....     | 1         | 14              | 14       |            |           |          |                    |                     |           |                   | 29     |
| Seventh.....   | 119       | 22              | 54       | 55         | 43        | 10       | 20                 |                     |           |                   | 323    |
| Eighth.....    | 106       |                 | 56       | 36         | 1         | 23       | 12                 |                     |           | 1                 | 235    |
| Ninth.....     | 74        | 1               | 9        | 22         | 46        | 7        |                    | 19                  |           |                   | 178    |
| Tenth.....     | 43        |                 | 41       |            | 27        |          | 9                  |                     |           |                   | 130    |
| Eleventh.....  | 65        | 207             | 54       | 27         | 1         | 36       |                    |                     |           |                   | 390    |
| Twelfth.....   | 129       | 22              | 18       | 3          | 4         | 22       |                    |                     |           |                   | 198    |
| The State..... | 563       | 307             | 257      | 143        | 122       | 117      | 51                 | 19                  | 1         | 1                 | 1,581  |

Table 56 gives the name and number of machines in use each year for thirteen years.

TABLE 56—*Name and number of mining machines in use for thirteen years.*

| Year.     | Sullivan. | Ingersoll-Sergeant. | Harrison. | Goodman. | Morgan-Gardner. | Jeffrey. | Ingersoll-Rand. | Herzler & Henninger. | Yock. | Link Belt. | Lee.  | Butler. | Electric. | Belleville. | Ingersoll. | Whitcomb. | Total. |
|-----------|-----------|---------------------|-----------|----------|-----------------|----------|-----------------|----------------------|-------|------------|-------|---------|-----------|-------------|------------|-----------|--------|
| 1900..... | 40        | 119                 | 197       | .....    | 19              | 30       | .....           | 1                    | 5     | 19         | ..... | .....   | .....     | .....       | .....      | .....     | 430    |
| 1901..... | 33        | 132                 | 178       | .....    | 32              | 33       | .....           | 13                   | 24    | 19         | ..... | .....   | .....     | .....       | .....      | .....     | 464    |
| 1902..... | 36        | 133                 | 160       | 32       | 22              | 31       | .....           | 20                   | 28    | .....      | ..... | 2       | .....     | .....       | .....      | .....     | 464    |
| 1903..... | 82        | 95                  | 178       | 15       | 15              | 50       | .....           | 33                   | 31    | 21         | ..... | 2       | .....     | .....       | .....      | .....     | 522    |
| 1904..... | 131       | 142                 | 210       | 29       | 27              | 29       | .....           | 22                   | 27    | 4          | ..... | 2       | .....     | .....       | .....      | .....     | 623    |
| 1905..... | 183       | 178                 | 236       | 49       | 19              | 41       | .....           | 40                   | 33    | 4          | ..... | 1       | .....     | .....       | .....      | .....     | 784    |
| 1906..... | 315       | 197                 | 244       | 82       | 28              | 33       | .....           | 35                   | 25    | .....      | 3     | .....   | .....     | .....       | .....      | .....     | 962    |
| 1907..... | 427       | 221                 | 195       | 112      | 74              | 35       | .....           | 26                   | 8     | 4          | 3     | .....   | .....     | .....       | .....      | .....     | 1,105  |
| 1908..... | 476       | 196                 | 181       | 127      | 112             | 34       | .....           | 23                   | 1     | 4          | ..... | 5       | 5         | 1           | .....      | .....     | 1,160  |
| 1909..... | 474       | 206                 | 168       | 134      | 194             | 49       | .....           | 11                   | 7     | .....      | 2     | .....   | .....     | 1           | .....      | .....     | 1,246  |
| 1910..... | 501       | 157                 | 149       | 124      | 223             | 74       | 19              | 77                   | 6     | 11         | 2     | .....   | .....     | .....       | .....      | .....     | 1,289  |
| 1911..... | 560       | 28                  | 121       | 173      | 275             | 85       | 60              | 18                   | ..... | 11         | ..... | .....   | .....     | .....       | 99         | .....     | 1,430  |
| 1912..... | 563       | 51                  | 122       | 257      | 307             | 117      | .....           | 19                   | ..... | .....      | ..... | .....   | 1         | .....       | 153        | 1         | 1,581  |



Table 57 is a list of seventy mines in which machines are used exclusively in mining coal. The list is arranged according to the tonnage and gives the location, the number and name of the machines in use and the tons mined.

TABLE 57—*Mines in which machines are used exclusively.*

| Number. | Company.                          | Location.         | Machines. |   | Tons.   |
|---------|-----------------------------------|-------------------|-----------|---|---------|
|         |                                   |                   | No.       | Name.   |         |
| 1       | Superior Coal Co., No. 3.....     | Gillespie.....    | 38        | 4 Jeffrey; 22 Harrison; 11 Sullivan; 1 Ingersoll..... | 837,979 |
| 2       | Superior Coal Co., No. 2.....     | do.....           | 44        | 3 Jeffrey; 11 Ingersoll; 27 Sullivan; 3 Harrison..... | 791,835 |
| 3       | New Staunton Coal Co., No. 1..    | Livingston.....   | 16        | Goodman.....  | 737,632 |
| 4       | Superior Coal Co., No. 1.....     | Gillespie.....    | 47        | 2 Jeffrey; 42 Ingersoll; 3 Harrison                   | 673,717 |
| 5       | Big Muddy C. & I. Co., No. 8...   | Clifford.....     | 36        | 33 Sullivan; 3 Ingersoll.....                         | 570,695 |
| 6       | Consolidated Coal Co., No. 14...  | Staunton.....     | 30        | Sullivan.....   | 534,485 |
| 7       | Consolidated Coal Co., No. 17...  | Collinsville..... | 32        | 31 Sullivan; 1 Harrison.....                          | 516,913 |
| 8       | Mt. Olive and Stau. C. Co., No. 2 | Staunton.....     | 15        | 13 Goodman; 2 Jeffrey.....                            | 506,044 |
| 9       | Saline Co. Coal Co., No. 2.....   | Ledford.....      | 10        | 1 Goodman; 9 Morgan-Gardner.                          | 498,223 |
| 10      | Chi., Wilm. & Ver. C. Co., No. 1  | Thayer.....       | 15        | 13 Morgan-Gardner; 1 Goodman; 1 Sullivan.....         | 486,140 |
| 11      | Consolidated Coal Co., No. 15...  | Mt. Olive.....    | 28        | Sullivan.....   | 460,116 |
| 12      | Bell-Zollar M. Co., No. 1.....    | Zeigler.....      | 18        | Goodman.....  | 423,687 |
| 13      | Shoal Creek Coal Co., No. 1.....  | Panama.....       | 21        | Goodman.....  | 407,025 |
| 14      | Donk Bros. C. & C. Co., No. 2..   | Maryville.....    | 39        | Sullivan.....   | 380,904 |
| 15      | Royal Colliery Co., No. 1.....    | Virden.....       | 13        | Goodman.....  | 362,815 |
| 16      | Marion Co. Coal Co.....           | Centralia.....    | 9         | Goodman.....  | 357,648 |
| 17      | Madison Coal Corporation, No. 6   | Divernon.....     | 14        | Goodman.....  | 354,650 |
| 18      | Southern C. & M. Co., No. 9....   | New Baden.....    | 33        | 32 Sullivan; 1 Harrison.....                          | 352,301 |
| 19      | Southern C. & M. Co., No. 8....   | Belleville.....   | 9         | 7 Jeffrey; 1 Morgan-Gardner; 1 Goodman.....           | 331,987 |
| 20      | Montgomery Co. Coal Co.....       | Hillsboro.....    | 15        | Sullivan.....   | 329,222 |
| 21      | Mt. Olive and Stau. C. Co., No. 1 | Staunton.....     | 9         | 6 Jeffrey; 3 Sullivan.....                            | 311,682 |
| 22      | Hillsboro Coal Co.....            | Hillsboro.....    | 10        | 9 Morgan-Gardner, 1 Jeffrey...                        | 293,619 |
| 23      | W. P. Rend C. & C. Co., No. 1..   | Herrin.....       | 15        | Morgan-Gardner.....                                   | 290,938 |
| 24      | W. P. Rend Col. Co., No. 1.....   | Rend.....         | 16        | 10 Morgan-Gardner; 6 Jeffrey...                       | 267,441 |
| 25      | O'Gara Coal Co., No. 10.....      | Harrisburg.....   | 13        | Morgan-Gardner.....                                   | 265,945 |
| 26      | Wasson Coal Co., No. 1.....       | do.....           | 12        | Morgan-Gardner.....                                   | 259,421 |
| 27      | Madison Coal Corp., No. 5.....    | Mt. Olive.....    | 20        | Ingersoll-Sargeant.....                               | 252,885 |
| 28      | O'Gara Coal Co., No. 4.....       | Harrisburg.....   | 10        | Morgan-Gardner.....                                   | 244,900 |
| 29      | Lumaghi Coal Co., No. 2.....      | Collinsville..... | 24        | 19 Sullivan; 5 Jeffrey.....                           | 238,140 |
| 30      | O'Gara Coal Co., No. 14.....      | Harrisburg.....   | 10        | Morgan-Gardner.....                                   | 238,076 |

Table 57—Continued.

| Number. | Company.                                 | Location.           | Machines. |  | Tons.   |
|---------|--|---------------------|-----------|--|---------|
|         |  |                     | No.       | Name.                                    |         |
| 31      | Saline Co. Coal Co., No. 3.....          | do.....             | 7         | Morgan-Gardner.....                      | 235,326 |
| 32      | Southern C. & M. Co., No. 8.....         | Belleville.....     | 19        | Harrison.....                            | 233,921 |
| 33      | Willis C. M. Co., No. 1.....             | Willisville.....    | 11        | 5 Sullivan; 6 Goodman.....               | 222,541 |
| 34      | Kortkamp Coal Co.....                    | Hillsboro.....      | 10        | Goodman.....                             | 222,256 |
| 35      | Big Muddy C. & I. Co., No. 9.....        | Murphysboro.....    | 9         | Sullivan.....                            | 216,445 |
| 36      | Southern Ill. C. & C. Co.....            | Herrin.....         | 14        | 13 Sullivan; 1 Harrison.....             | 206,918 |
| 37      | Ohio Valley M. Co., No. 8.....           | West Frankfort..... | 14        | Jeffrey.....                             | 197,773 |
| 38      | Willis Coal M. Co., No. 6.....           | Percy.....          | 7         | Goodman.....                             | 188,779 |
| 39      | Stonington Coal Co.....                  | Stonington.....     | 7         | Goodman.....                             | 175,516 |
| 40      | Cartersville Dist. Coal Co., No. 1.....  | Marion.....         | 16        | Sullivan.....                            | 174,390 |
| 41      | Consolidated Coal Co., No. 8.....        | Mt. Olive.....      | 14        | Harrison.....                            | 166,893 |
| 42      | Superior C. & M. Co.....                 | Belleville.....     | 10        | Herzler & Henninger.....                 | 158,622 |
| 43      | Standard Col. Co.....                    | Johnston City.....  | 11        | Jeffrey.....                             | 149,666 |
| 44      | O'Gara Coal Co., No. 11.....             | Harrisburg.....     | 10        | Morgan-Gardner.....                      | 134,619 |
| 45      | Security C. & M. Co., No. 1.....         | Duquoin.....        | 6         | Sullivan.....                            | 130,575 |
| 46      | Tazewell Coal Co.....                    | Pekin.....          | 10        | Morgan-Gardner.....                      | 126,206 |
| 47      | Kerns-Donnewald Coal Co.....             | Worden.....         | 7         | 5 Jeffrey; 2 Goodman.....                | 122,584 |
| 48      | Big Muddy C. & I. Co., Harrison.....     | Murphysboro.....    | 17        | Harrison.....                            | 114,271 |
| 49      | Breese Trenton M. Co.....                | Trenton.....        | 18        | 16 Ingersoll; 2 Harrison.....            | 105,465 |
| 50      | Carroll & Franklin Co.'s C. Co.....      | Hanaford.....       | 6         | Morgan-Gardner.....                      | 99,540  |
| 51      | Illinois Fuel Co., No. 4.....            | Sparta.....         | 7         | Goodman.....                             | 97,508  |
| 52      | Ritchey Coal Co., No. 1.....             | Pineknayville.....  | 7         | Harrison.....                            | 92,612  |
| 53      | Lumaghi Coal Co., No. 3.....             | Collinsville.....   | 13        | Sullivan.....                            | 91,671  |
| 54      | O'Gara Coal Co., No. 7.....              | Harrisburg.....     | 4         | Morgan-Gardner.....                      | 91,008  |
| 55      | Moffatt Coal Co., No. 1.....             | Sparta.....         | 15        | Sullivan.....                            | 89,964  |
| 56      | DeCamp Coal Co., No. 1.....              | Staunton.....       | 6         | Goodman.....                             | 87,349  |
| 57      | O'Gara Coal Co. No. 8.....               | Harrisburg.....     | 9         | Morgan-Gardner.....                      | 68,228  |
| 58      | Moweaqua C. & M. Mfg. Co.,<br>No. 1..... | Moweaqua.....       | 8         | 1, Goodman; 7, Morgan-Gardner.....       | 53,426  |
| 59      | Mo. & Ill. Coal Co.....                  | Rentchler.....      | 4         | Goodman.....                             | 51,603  |
| 60      | Applegate & Lewis Coal Co.....           | Hanna City.....     | 4         | 2, Sullivan, 2, Jeffrey.....             | 51,503  |
| 61      | Mulberry Hill Coal Co.....               | Freeburg.....       | 4         | Goodman.....                             | 40,440  |
| 62      | Dewey Coal Mining Co.....                | Belleville.....     | 4         | 2, Harrison; 2, Herzler & Henninger..... | 40,200  |
| 63      | Southern Coal Mining Co., No. 1.....     | do.....             | 6         | Harrison.....                            | 35,670  |
| 64      | O'Gara Coal Co., No. 12.....             | Harrisburg.....     | 6         | Morgan-Gardner.....                      | 31,504  |
| 65      | Wm. Neil.....                            | Bunker Hill.....    | 1         | Harrison.....                            | 17,474  |
| 66      | Crescent Coal Co.....                    | Equality.....       | 3         | Sullivan.....                            | 15,463  |

Table 57—Concluded.

| Number | Company.                        | Location.       | Machines. |                              | Tons.      |
|--------|---------------------------------|-----------------|-----------|------------------------------|------------|
|        |                                 |                 | No.       | Name.                        |            |
| 67     | German Coal Co.....             | Mapleton.....   | 1         | Jeffrey.....                 | 15,214     |
| 68     | Southern Coal & M. Co., No. 4.. | Belleville..... | 4         | Harrison.....                | 13,739     |
| 69     | Peoples Coal Co.....            | Lebanon.....    | 2         | do.....                      | 8,250      |
| 70     | Silver Creek Coal Co.....       | Mascoutah.....  | 5         | 3 Harrison; 2, Sullivan..... | 7,824      |
|        | Total.....                      |                 | 957       |                              | 16,960,021 |

Table 58 is a list of the 957 machines used in the mines where machine mining is carried on exclusively, and gives the name and number of each, the number of mines using, number of men employed, days worked and tons produced.

TABLE 58—*Machine mining exclusively, name and number of machines, number of mines, men, days and tons.*

| Name of machines.                                       | Number of — |        |        |               |            |
|---|-------------|--------|--------|---------------|------------|
|   | Machines.   | Mines. | Men.   | Average days. | Tons.      |
| Sullivan.....   | 174         | 10     | 2,850  | 159           | 2,423,235  |
| Goodman.....  | 136         | 13     | 3,938  | 175           | 3,506,908  |
| Morgan-Gardner.....                                     | 112         | 12     | 2,800  | 183           | 2,085,711  |
| Harrison.....   | 68          | 7      | 927    | 157           | 682,830    |
| Jeffrey.....  | 26          | 3      | 400    | 188           | 362,653    |
| Ingersoll-Sargent.....                                  | 20          | 1      | 299    | 189           | 252,885    |
| Herzler and Henninger.....                              | 10          | 1      | 131    | 206           | 158,622    |
| Jeffrey, 7—Harrison, 27—Sullivan, 38—Ingersoll, 12..... | 84          | 2      | 1,154  | 228           | 1,629,814  |
| Sullivan, 78—Harrison, 6.....                           | 84          | 4      | 998    | 175           | 1,083,956  |
| Jeffrey, 2—Ingersoll, 42—Harrison, 3.....               | 47          | 1      | 562    | 225           | 673,717    |
| Sullivan, 24—Jeffrey, 13.....                           | 37          | 3      | 864    | 161           | 601,325    |
| Ingersoll, 16—Harrison, 2.....                          | 18          | 1      | 180    | 136           | 105,465    |
| Sullivan, 33—Ingersoll, 3.....                          | 36          | 1      | 366    | 231           | 570,695    |
| Morgan-Gardner, 19—Jeffrey, 7.....                      | 26          | 2      | 513    | 224           | 561,060    |
| Goodman, 15—Jeffrey, 7.....                             | 22          | 2      | 723    | 153           | 628,628    |
| Goodman, 2—Morgan-Gardner, 16.....                      | 18          | 2      | 563    | 180           | 551,649    |
| Morgan-Gardner, 13—Goodman, 1—Sullivan, 1.....          | 15          | 1      | 525    | 199           | 486,140    |
| Sullivan, 5—Goodman, 6.....                             | 11          | 1      | 236    | 218           | 222,539    |
| Jeffrey, 7—Morgan-Gardner, 1—Goodman, 1.....            | 9           | 1      | 286    | 215           | 331,989    |
| Harrison, 2—Herzler and Henninger, 2.....               | 4           | 1      | 48     | 180           | 40,200     |
| Total.....  | 957         | 69     | 18,363 | 176           | 16,960,021 |

Table 59 gives the name, location, number and name of machine used, and tons produced in those mines where only a part of the tonnage is undercut.

TABLE 59—*Mines in which only part of the output is cut by machines.*

| Number. | Company.                          | Location.          | Machines. |  | Tons.   |
|---------|-----------------------------------|--------------------|-----------|--|---------|
|         |                                   |                    | No.       | Name.  |         |
| 1       | O'Gara Coal Co. No. 9.....        | Harrisburg.....    | 15        | Morgan-Gardner.....                            | 522,524 |
| 2       | United C. M. Co., No. 1.....      | Christopher.....   | 19        | Goodman.....                                   | 465,215 |
| 3       | St. L. & O'Fallon C. Co., No. 2.. | E. St. Louis.....  | 32        | Sullivan.....                                  | 514,978 |
| 4       | Sesser Coal Co.....               | Sesser.....        | 29        | 27, Ingersoll; 2 Sullivan                      | 400,402 |
| 5       | Chi. & Carterville Coal Co., A... | Herrin.....        | 34        | Sullivan.....                                  | 387,263 |
| 6       | O'Gara Coal Co., No. 3.....       | Harrisburg.....    | 15        | Morgan-Gardner.....                            | 382,131 |
| 7       | Zeigler Dist. Col. Co.....        | Christopher.....   | 17        | 16, Jeffrey; 1, Morgan-Gardner                 | 373,997 |
| 8       | Bunsen Coal Co., Verm.....        | Westville.....     | 16        | 10, Sullivan; 6, Jeffrey.....                  | 320,183 |
| 9       | Hart-Williams Coal Co.....        | Benton.....        | 18        | Morgan-Gardner.....                            | 89,327  |
| 10      | Benton Coal Co.....               | ..do.....          | 15        | ..do.....                                      | 286,849 |
| 11      | O'Gara Coal Co, No. 11 .....      | Harrisburg.....    | 13        | ..do.....                                      | 239,176 |
| 12      | Bunsen Coal Co., No. 3.....       | Westville.....     | 9         | 7, Sullivan; 2, Jeffrey .....                  | 224,375 |
| 13      | Big Creek Coal Co., No. 2.....    | St. David.....     | 12        | Morgan-Gardner.....                            | 219,810 |
| 14      | Dering Coal Co., No. 11.....      | West Frankfort.... | 25        | Sullivan.....                                  | 209,416 |
| 15      | Greenridge Coal Co., No. 1.....   | Viriden.....       | 10        | Goodman.....                                   | 204,872 |
| 16      | O'Gara Coal Co., No. 15.....      | Harrisburg.....    | 9         | Morgan-Gardner.....                            | 192,552 |
| 17      | Madison Coal Corp., No. 2.....    | Glen Carbon.....   | 18        | Ingersoll.....                                 | 163,501 |
| 18      | West Va. Coal Co., No. 1.....     | Marion.....        | 7         | Jeffrey.....                                   | 166,142 |
| 19      | Sunnyside Coal Co., No. 1.....    | Herrin.....        | 18        | Sullivan.....                                  | 161,777 |
| 20      | Franklin C. & C. Co.....          | Royalton .....     | 9         | 3, Morgan-Gardner; 6, Goodman.....             | 159,084 |
| 21      | Big Creek Coal Co., No. 4.....    | Dunfermline.....   | 9         | Morgan-Gardner.....                            | 158,507 |
| 22      | Odin Coal Co.....                 | Odin.....          | 9         | 4, Goodman; 5, Jeffrey .....                   | 158,442 |
| 23      | Pond Creek Coal Co.....           | Herrin.....        | 16        | Sullivan.....                                  | 150,970 |
| 24      | Harrisburg & So. C. Co., No. 1..  | Eldorado.....      | 6         | Morgan-Gardner.....                            | 143,173 |
| 25      | Paradise Coal Co.....             | Duquoin.....       | 9         | Goodman.....                                   | 142,628 |
| 26      | Bunsen Coal Co., No. 2.....       | Westville.....     | 9         | 5, Sullivan; 1, Goodman; 3, Jeffrey .....      | 132,665 |
| 27      | Johnston City C. Co., No. 1....   | Johnston City..... | 9         | 1, Goodman; 1, Jeffrey; 7, Morgan-Gardner..... | 128,234 |
| 28      | Mo. & Ill. Coal Co., No. 4.....   | Willisville.....   | 8         | Goodman.....                                   | 126,909 |
| 29      | Royal mining Co.....              | Belleville.....    | 11        | Sullivan.....                                  | 125,767 |
| 30      | Peabody Coal Co. No. 2.....       | Marion.....        | 5         | 1, Jeffrey; 4, Goodman.....                    | 122,173 |
| 31      | Dering Coal Co., No. 18.....      | West Frankfort.... | 21        | Sullivan.....                                  | 104,941 |
| 32      | Saline Co. Coal Co., No. 1.....   | Ledford.....       | 5         | 4, Morgan-Gardner; 1, Goodman                  | 99,350  |

Table 59—Concluded.

| Number.    | Company.                              | Location.          | Machines. |                                 | Tons.     |
|------------|---------------------------------------|--------------------|-----------|---------------------------------|-----------|
|            |                                       |                    | No.       | Name.                           |           |
| 33         | Eldorado C. M. Co., No. 1.....        | Eldorado.....      | 4         | Goodman.....                    | 91,700    |
| 34         | Madison Coal Corp., No. 4.....        | Glen Carbon.....   | 18        | Ingersoll.....                  | 83,785    |
| 35         | Wilson Bros. C. Co., No. 7.....       | Sparta.....        | 3         | Goodman.....                    | 69,572    |
| 36         | United C. M. Co., No. 2.....          | Christopher.....   | 5         | do.....                         | 66,488    |
| 37         | Gus Blair B. M. C. Co., No. 1.....    | Murphysboro.....   | 8         | Ingersoll-Sargent.....          | 63,678    |
| 38         | Seranton B. M. C. M. Co.....          | Marion.....        | 7         | Sullivan.....                   | 63,002    |
| 39         | Big Muddy Fuel Co.....                | Johnston City..... | 7         | Goodman.....                    | 61,972    |
| 40         | Southern Ill. C. & C. Co.....         | Herrin.....        | 9         | 5, Sullivan; 4, Harrison.....   | 56,662    |
| 41         | Gartside Coal Co., No. 4.....         | Murphysboro.....   | 6         | Ingersoll-Sargent.....          | 55,254    |
| 42         | North Breese C. M. Co.....            | Breese.....        | 4         | Goodman.....                    | 53,669    |
| 43         | Peabody Coal Co., No. 10.....         | Nokomis.....       | 8         | 7, Sullivan; 1, Ingersoll.....  | 51,441    |
| 44         | Deming Cruickshank C. Co., No. 3..... | Peoria.....        | 4         | 3, Jeffrey; 1, Morgan-Gardner.. | 50,384    |
| 45         | City Coal Co., No. 3.....             | Edwardsville.....  | 5         | Ingersoll-Sargent.....          | 38,593    |
| 46         | Madison Coal Corp., No. 9.....        | Dewmaine.....      | 4         | 2, Goodman; 2, Jeffrey.....     | 47,176    |
| 47         | Norris City C. M. Co.....             | Norris City.....   | 3         | 2, Morgan-Gardner; 1, Sullivan  | 30,645    |
| 48         | Pittsburg B. M. Coal Co., No. 2.....  | Pittsburg.....     | 4         | Goodman.....                    | 24,363    |
| 49         | L. Senior.....                        | Belleville.....    | 3         | Harrison.....                   | 22,701    |
| 50         | Gus Blair B. M. Coal Co., No. 2.....  | Murphysboro.....   | 5         | Ingersoll-Sargent.....          | 21,550    |
| 51         | Centralia Coal Co., No. 5.....        | Centralia.....     | 2         | Goodman.....                    | 21,000    |
| 52         | Silver Creek Col. Co., No. 1.....     | Farmington.....    | 2         | Jeffrey.....                    | 17,216    |
| 53         | Brilliant C. & C. Co.....             | Duquoin.....       | 1         | Goodman.....                    | 16,328    |
| 54         | Bald Eagle M. Co.....                 | Craig.....         | 6         | Sullivan.....                   | 15,511    |
| 55         | W. S. Walker.....                     | Edwardsville.....  | 7         | Ingersoll-Sargent.....          | 13,100    |
| 56         | Central Ill. Fuel Co., No. 1.....     | Coal City.....     | 2         | Sullivan.....                   | 9,500     |
| 57         | Ill. Valley Coal Co., No. 2.....      | Sparland.....      | 2         | 1, Morgan-Gardner; 1, Sullivan  | 9,151     |
| 58         | Schmidgall Coal Co.....               | Murphysboro.....   | 3         | Harrison.....                   | 8,581     |
| 59         | Clover Leaf M. Co., No. 2.....        | Coffeen.....       | 1         | Sullivan.....                   | 8,123     |
| 60         | International C. & M. Co.....         | O'Fallon.....      | 6         | Ingersoll.....                  | 8,048     |
| 61         | Star Coal Co.....                     | Freeburg.....      | 7         | Herzler and Henninger.....      | 8,000     |
| 62         | Vivian Collieries Co.....             | Greenridge.....    | 13        | Morgan-Gardner.....             | 7,212     |
| 63         | Streator Clay Mfg. Co.....            | Streator.....      | 1         | G. D. Whitecomb.....            | 6,800     |
| 64         | Traer Coal Co., No. 1.....            | Danville.....      | 1         | Sullivan.....                   | 6,150     |
| 65         | Mo. and Ill. Coal Co.....             | Wilderman.....     | 2         | Harrison.....                   | 3,734     |
| 66         | Williams and Newman.....              | Collinsville.....  | 3         | 2, Goodman; 1, Gen. Elect.....  | 1,200     |
| 67         | Missionfield Coal Co., No. 3.....     | Danville.....      | 1         | Sullivan.....                   | 416       |
| Total..... |                                       |                    | 624       |                                 | 8,590,038 |

## POWDER.

Tables 60, 61, 62, 63 and 64 are known as the "powder tables," and give in detail the record of the consumption of powder in the mines for blasting down coal.

Table 60 is the record for all mines, while the others are for shipping mines only, and are divided into three classes—hand mining, machine mining and both hand and machine. Thirty-nine mines are not accounted for in these tables.

This year shows a material increase both in amount of powder used and in tons mined, while a very slight increase in the number of tons per keg is seen.

TABLE 60—*Distribution of powder in all mines, by districts, for blasting down coal.*

| Districts.    | Number of mines. | Number of miners. | Number of kegs of powder. | Number of tons of coal. | Number of kegs per man. | Number of tons per keg. |
|---------------|------------------|-------------------|---------------------------|-------------------------|-------------------------|-------------------------|
| First.....    | 25               | 1,777             | 26,754                    | 1,145,999               | 15.06                   | 42.83                   |
| Shipping..... | 10               | 1,594             | 18,413                    | 947,557                 | 11.55                   | 51.46                   |
| Local.....    | 15               | 183               | 8,341                     | 198,442                 | 45.53                   | 23.79                   |
| Second.....   | 51               | 661               | 26,348                    | 519,089                 | 39.86                   | 19.70                   |
| Shipping..... | 6                | 396               | 19,664                    | 387,431                 | 49.66                   | 19.70                   |
| Local.....    | 45               | 265               | 6,684                     | 131,658                 | 25.22                   | 19.70                   |
| Third.....    | 89               | 1,942             | 89,010                    | 1,785,846               | 45.83                   | 20.06                   |
| Shipping..... | 26               | 1,643             | 77,931                    | 1,540,800               | 47.43                   | 19.77                   |
| Local.....    | 63               | 299               | 11,079                    | 245,046                 | 37.05                   | 22.12                   |
| Fourth.....   | 137              | 2,877             | 120,941                   | 2,439,782               | 42.04                   | 20.17                   |
| Shipping..... | 20               | 2,549             | 115,579                   | 2,333,758               | 45.93                   | 20.19                   |
| Local.....    | 117              | 328               | 5,362                     | 106,024                 | 16.35                   | 19.77                   |
| Fifth.....    | 62               | 4,446             | 157,000                   | 4,971,814               | 35.31                   | 31.67                   |
| Shipping..... | 31               | 4,287             | 151,402                   | 4,812,997               | 35.37                   | 31.78                   |
| Local.....    | 31               | 159               | 5,598                     | 158,817                 | 35.21                   | 28.37                   |
| Sixth.....    | 39               | 5,787             | 252,473                   | 5,937,719               | 43.63                   | 23.52                   |
| Shipping..... | 34               | 5,696             | 248,503                   | 5,851,365               | 43.63                   | 23.55                   |
| Local.....    | 5                | 91                | 3,970                     | 86,354                  | 43.63                   | 21.75                   |
| Seventh.....  | 27               | 5,143             | 91,740                    | 7,197,987               | 17.82                   | 78.46                   |
| Shipping..... | 23               | 5,119             | 91,359                    | 7,170,963               | 17.85                   | 78.55                   |
| Local.....    | 4                | 24                | 381                       | 27,024                  | 15.88                   | 70.93                   |
| Eighth.....   | 39               | 4,942             | 112,455                   | 5,853,945               | 22.75                   | 52.06                   |
| Shipping..... | 29               | 4,882             | 110,733                   | 5,801,039               | 22.68                   | 52.38                   |
| Local.....    | 10               | 60                | 1,722                     | 52,906                  | 28.70                   | 30.72                   |

Table 60—Concluded.

| Districts.     | Number<br>of<br>mines. | Number<br>of<br>miners. | Number of<br>kegs of<br>powder. | Number of<br>tons of<br>coal. | Number<br>of kegs<br>per man. | Number<br>of tons<br>per keg. |
|----------------|------------------------|-------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Ninth.....     | 74                     | 4,200                   | 100,943                         | 4,509,412                     | 24.03                         | 44.67                         |
| Shipping.....  | 58                     | 4,091                   | 97,694                          | 4,409,341                     | 23.88                         | 45.13                         |
| Local.....     | 16                     | 109                     | 3,249                           | 100,071                       | 29.81                         | 30.80                         |
| Tenth.....     | 63                     | 3,707                   | 67,801                          | 3,090,840                     | 18.29                         | 45.56                         |
| Shipping.....  | 40                     | 3,632                   | 65,711                          | 3,023,344                     | 18.09                         | 46.01                         |
| Local.....     | 23                     | 75                      | 2,090                           | 67,496                        | 27.87                         | 32.29                         |
| Eleventh.....  | 49                     | 4,130                   | 80,969                          | 5,857,719                     | 19.60                         | 78.01                         |
| Shipping.....  | 30                     | 4,086                   | 80,122                          | 5,835,407                     | 19.61                         | 78.60                         |
| Local.....     | 19                     | 44                      | 847                             | 22,312                        | 19.27                         | 26.34                         |
| Twelfth.....   | 49                     | 6,006                   | 187,014                         | 7,089,425                     | 31.14                         | 37.91                         |
| Shipping.....  | 34                     | 5,959                   | 186,203                         | 7,058,621                     | 31.25                         | 37.91                         |
| Local.....     | 15                     | 47                      | 811                             | 31,804                        | 17.25                         | 39.08                         |
| The State..... | 704                    | 45,618                  | 1,313,448                       | 51,149,692                    | 28.79                         | 38.94                         |
| Shipping.....  | 341                    | 43,934                  | 1,263,314                       | 49,172,623                    | 28.76                         | 38.92                         |
| Local.....     | 363                    | 1,684                   | 50,134                          | 1,977,069                     | 29.76                         | 39.44                         |

TABLE 61—Distribution of powder in all shipping mines, by districts.

| Districts.    | Number<br>of<br>mines. | Number<br>of<br>miners. | Number<br>of<br>tons. | Number of<br>kegs<br>of powder. | Number of<br>kegs<br>per man. | Number of<br>tons<br>per keg. |
|---------------|------------------------|-------------------------|-----------------------|---------------------------------|-------------------------------|-------------------------------|
| First.....    | 10                     | 1,594                   | 947,557               | 18,413                          | 11.55                         | 51.46                         |
| Second.....   | 6                      | 396                     | 387,431               | 19,664                          | 49.66                         | 19.70                         |
| Third.....    | 26                     | 1,643                   | 1,540,800             | 77,931                          | 47.43                         | 19.77                         |
| Fourth.....   | 20                     | 2,549                   | 2,333,758             | 115,579                         | 45.93                         | 20.19                         |
| Fifth.....    | 31                     | 4,287                   | 4,812,997             | 151,402                         | 35.32                         | 31.78                         |
| Sixth.....    | 34                     | 5,696                   | 5,851,365             | 248,503                         | 43.63                         | 23.55                         |
| Seventh.....  | 23                     | 5,119                   | 7,170,963             | 91,359                          | 17.85                         | 78.55                         |
| Eighth.....   | 29                     | 4,882                   | 5,801,039             | 110,733                         | 22.68                         | 52.38                         |
| Ninth.....    | 58                     | 4,091                   | 4,409,341             | 97,694                          | 23.85                         | 45.13                         |
| Tenth.....    | 40                     | 3,632                   | 3,023,344             | 65,711                          | 18.09                         | 46.01                         |
| Eleventh..... | 30                     | 4,086                   | 5,835,407             | 80,122                          | 19.61                         | 78.60                         |
| Twelfth.....  | 34                     | 5,959                   | 7,058,621             | 186,203                         | 31.25                         | 37.91                         |
| Total.....    | 341                    | 43,934                  | 49,172,623            | 1,263,314                       | 28.76                         | 38.92                         |

TABLE 62—*Consumption of powder in shipping mines, hand mining exclusively, by districts.*

| Districts.       | Number of mines. | Number of miners. | Number of tons. | Number of kegs of powder. | Number of kegs per man. | Number of tons per keg. |
|------------------|------------------|-------------------|-----------------|---------------------------|-------------------------|-------------------------|
| First.....       | 10               | 1,994             | 947,557         | 18,413                    | 11.55                   | 51.35                   |
| Second.....      | 5                | 377               | 374,391         | 19,440                    | 51.57                   | 19.26                   |
| Third.....       | 21               | 1,338             | 1,221,576       | 70,659                    | 52.81                   | 17.29                   |
| Fourth.....      | 17               | 1,968             | 1,823,234       | 101,254                   | 51.45                   | 18.09                   |
| Fifth.....       | 24               | 3,152             | 3,329,567       | 114,129                   | 36.21                   | 29.16                   |
| Sixth.....       | 32               | 5,033             | 5,010,575       | 240,339                   | 47.75                   | 20.85                   |
| Seventh.....     | 7                | 1,137             | 1,153,793       | 29,678                    | 26.10                   | 38.20                   |
| Eighth.....      | 13               | 1,659             | 1,948,761       | 72,028                    | 43.42                   | 27.06                   |
| Ninth.....       | 41               | 2,340             | 2,072,477       | 71,015                    | 30.35                   | 28.18                   |
| Tenth.....       | 23               | 1,606             | 1,026,447       | 34,314                    | 21.37                   | 26.99                   |
| Eleventh.....    | 5                | 180               | 137,667         | 6,487                     | 36.04                   | 21.22                   |
| Twelfth.....     | 19               | 2,963             | 3,103,707       | 117,026                   | 39.49                   | 26.52                   |
| Total.....       | 217              | 23,347            | 22,149,752      | 894,782                   | 38.33                   | 24.75                   |
| Percentages..... | 63.64            | 53.14             | 45.05           | 70.83                     | .....                   | .....                   |

TABLE 63—*Consumption of powder in shipping mines, machine mining exclusively, by districts.*

| Districts.       | Number of mines. | Number of machines. | Number of miners. | Number of tons. | Number of kegs of powder. | Number of kegs per man. | Number of tons per keg. |
|------------------|------------------|---------------------|-------------------|-----------------|---------------------------|-------------------------|-------------------------|
| Third.....       | 3                | 15                  | 183               | 192,923         | 3,006                     | 16.43                   | 64.18                   |
| Fifth.....       | 2                | 15                  | 258               | 228,942         | 2,500                     | 96.90                   | 91.58                   |
| Sixth.....       | 2                | 29                  | 663               | 840,790         | 8,164                     | 12.31                   | 101.99                  |
| Seventh.....     | 12               | 290                 | 3,348             | 5,332,847       | 40,520                    | 12.10                   | 131.61                  |
| Eighth.....      | 10               | 171                 | 2,497             | 3,085,955       | 25,253                    | 10.11                   | 122.20                  |
| Ninth.....       | 11               | 133                 | 1,073             | 1,497,344       | 14,107                    | 13.15                   | 106.14                  |
| Tenth.....       | 8                | 79                  | 1,040             | 1,152,695       | 13,898                    | 13.36                   | 82.94                   |
| Eleventh.....    | 14               | 130                 | 1,997             | 2,656,612       | 27,740                    | 13.82                   | 95.77                   |
| Twelfth.....     | 4                | 78                  | 773               | 1,185,689       | 15,389                    | 19.91                   | 77.05                   |
| Total.....       | 66               | 940                 | 11,832            | 16,173,797      | 150,577                   | 12.73                   | 107.41                  |
| Percentages..... | 19.35            | 65.14               | 26.93             | 32.89           | 11.92                     | .....                   | .....                   |



TABLE 64—*Consumption of powder in shipping mines, hand and machine mining combined, by districts.*

| Districts.       | Number of mines. | Number of machines. | Number of miners. | Number of tons. | Number of kegs of powder. | Number of kegs per man. | Number of tons per keg. |
|------------------|------------------|---------------------|-------------------|-----------------|---------------------------|-------------------------|-------------------------|
| Second.....      | 1                | 2                   | 19                | 13,040          | 224                       | 11.79                   | 58.21                   |
| Third.....       | 2                | 6                   | 122               | 126,301         | 4,266                     | 34.97                   | 29.61                   |
| Fourth.....      | 3                | 23                  | 581               | 510,524         | 14,325                    | 24.66                   | 35.64                   |
| Fifth.....       | 5                | 36                  | 877               | 1,254,488       | 34,773                    | 39.65                   | 36.08                   |
| Seventh.....     | 4                | 32                  | 634               | 684,323         | 21,161                    | 33.38                   | 32.34                   |
| Eighth.....      | 6                | 61                  | 726               | 766,323         | 13,452                    | 18.53                   | 56.97                   |
| Ninth.....       | 6                | 61                  | 678               | 839,520         | 12,572                    | 18.54                   | 66.78                   |
| Tenth.....       | 9                | 48                  | 986               | 844,202         | 17,499                    | 17.75                   | 48.23                   |
| Eleventh.....    | 11               | 114                 | 1,909             | 3,041,128       | 45,895                    | 20.96                   | 66.26                   |
| Twelfth.....     | 11               | 120                 | 2,223             | 2,769,225       | 53,788                    | 24.20                   | 51.48                   |
| Total.....       | 58               | 503                 | 8,755             | 10,849,074      | 217,955                   | 24.22                   | 49.78                   |
| Percentages..... | 17.01            | 34.86               | 19.93             | 22.06           | 17.25                     | .....                   | .....                   |

Table 65 shows the percentages each year for four years of the mines, miners, tons produced and kegs of powder used in each of the three classes.

TABLE 65—*Percentages of mines, miners, tons and kegs of powder represented in shipping mines where powder is used for blasting coal; also averages, kegs of powder per man and tons per keg.*

|                        | 1912.      |          |                   | 1911.      |          |                   | 1910.      |          |                   | 1909.      |          |                   |
|------------------------|------------|----------|-------------------|------------|----------|-------------------|------------|----------|-------------------|------------|----------|-------------------|
|                        | Mining by— |          |                   | Mining by— |          |                   | Mining by— |          |                   | Mining by— |          |                   |
|                        | Hand.      | Machine. | Hand and machine. | Hand.      | Machine. | Hand and machine. | Hand.      | Machine. | Hand and machine. | Hand.      | Machine. | Hand and machine. |
| Per cent of number of— |            |          |                   |            |          |                   |            |          |                   |            |          |                   |
| Mines.....             | 63.64      | 19.35    | 17.01             | 64.4       | 17.0     | 18.6              | 67.9       | 17.2     | 14.9              | 70.3       | 15.0     | 14.7              |
| Miners.....            | 53.14      | 26.93    | 19.93             | 54.5       | 22.3     | 23.2              | 85.0       | 4.8      | 10.3              | 64.0       | 18.4     | 17.6              |
| Tons.....              | 45.05      | 32.89    | 22.06             | 46.6       | 28.0     | 25.4              | 52.5       | 48.7     | 18.9              | 55.5       | 23.8     | 20.7              |
| Kegs of powder....     | 70.83      | 11.92    | 17.25             | 72.2       | 8.7      | 19.1              | 78.2       | 9.1      | 12.8              | 77.1       | 7.6      | 15.3              |
| Average—               |            |          |                   |            |          |                   |            |          |                   |            |          |                   |
| Kegs per man.....      | 38.33      | 12.73    | 24.22             | 36.2       | 11.4     | 23.3              | 37.5       | 74.8     | 49.5              | 35.7       | 12.2     | 25.7              |
| Tons per keg.....      | 24.75      | 107.41   | 49.78             | 24.5       | 118.0    | 48.8              | 24.3       | 114.2    | 53.7              | 25.8       | 112.2    | 48.6              |

## METHOD OF MINING.

Table 66 shows, by districts, the method of mining coal in the shipping mines of the State.

TABLE 66—*Method of mining in shipping mines—1912.*

| Districts.    | Blasted from the soil. |            | Undercut before blasting |            | Both methods used. |           | Total. |            |
|---------------|------------------------|------------|--------------------------|------------|--------------------|-----------|--------|------------|
|               | Mines.                 | Tons.      | Mines.                   | Tons.      | Mines.             | Tons.     | Mines. | Tons.      |
| First.....    | 6                      | 506,975    | 14                       | 1,448,081  | 4                  | 396,274   | 24     | 2,351,330  |
| Second.....   | 5                      | 374,391    | .....                    | .....      | 1                  | 13,040    | 6      | 387,431    |
| Third.....    | 25                     | 1,731,591  | 5                        | 909,454    | 2                  | 126,301   | 32     | 2,767,346  |
| Fourth.....   | 17                     | 1,823,234  | .....                    | .....      | 3                  | 510,524   | 20     | 2,333,758  |
| Fifth.....    | 21                     | 2,604,877  | 9                        | 1,145,813  | 4                  | 1,251,750 | 34     | 5,002,440  |
| Sixth.....    | 33                     | 5,087,728  | 2                        | 840,790    | .....              | .....     | 35     | 5,928,518  |
| Seventh.....  | 6                      | 686,856    | 14                       | 5,956,467  | 3                  | 527,640   | 23     | 7,170,963  |
| Eighth.....   | 13                     | 1,848,761  | 11                       | 3,364,668  | 5                  | 587,610   | 29     | 5,801,039  |
| Ninth.....    | 44                     | 2,421,516  | 10                       | 1,229,676  | 4                  | 758,149   | 58     | 4,409,341  |
| Tenth.....    | 23                     | 1,152,659  | 16                       | 1,758,373  | 1                  | 112,312   | 40     | 3,023,344  |
| Eleventh..... | 7                      | 418,266    | 24                       | 6,054,518  | 7                  | 1,725,688 | 38     | 8,198,472  |
| Twelfth.....  | 20                     | 3,409,978  | 5                        | 1,231,756  | 9                  | 2,416,887 | 34     | 7,058,621  |
| Total.....    | 220                    | 22,066,832 | 110                      | 23,939,596 | 43                 | 8,426,175 | 373    | 54,432,603 |

## GENERAL SUMMARY.

Tables 67, 68, 69 and 70 summarizes all the items of all the mines of the State that have been reported by the State Inspectors of Mines for the fiscal year ended June 30, 1912.

TABLE 67—*Summary by districts, shipping and local mines, number of mines and production by grades—1912.*

| Districts and mines. | Number of mines. | Total tons of coal produced. | Graded product—tons of— |           |         |        |         |                 |
|----------------------|------------------|------------------------------|-------------------------|-----------|---------|--------|---------|-----------------|
|                      |                  |                              | Mine run.               | Lump.     | Egg.    | Nut.   | Pea.    | Slack or waste. |
| First.....           | 60               | 2,612,556                    | 661,266                 | 1,066,579 | 317,651 | 30,265 | 423,130 | 113,665         |
| Shipping.....        | 24               | 2,351,330                    | 447,687                 | 1,033,522 | 316,866 | 23,489 | 423,130 | 106,636         |
| Local.....           | 36               | 261,226                      | 213,579                 | 33,057    | 785     | 6,776  | .....   | 7,029           |
| Second.....          | 105              | 2,250,393                    | 110,294                 | 1,563,992 | 174,278 | 11,912 | 332,889 | 57,028          |
| Shipping.....        | 13               | 2,051,523                    | 103,343                 | 1,396,702 | 174,278 | 9,626  | 318,086 | 49,488          |
| Local.....           | 92               | 198,870                      | 6,951                   | 167,290   | .....   | 2,286  | 14,803  | 7,540           |

Table 67—Concluded.

| Districts<br>and mines. | Num-<br>ber<br>of<br>mines. | Total<br>tons of<br>coal<br>produced. | Graded product—tons of— |            |           |           |            |                       |
|-------------------------|-----------------------------|---------------------------------------|-------------------------|------------|-----------|-----------|------------|-----------------------|
|                         |                             |                                       | Mine run.               | Lump.      | Egg.      | Nut.      | Pea.       | Slack<br>or<br>waste. |
| Third.....              | 101                         | 3,015,086                             | 491,111                 | 1,648,325  | 203,942   | 75,664    | 492,554    | 103,490               |
| Shipping.....           | 32                          | 2,767,346                             | 375,244                 | 1,527,563  | 203,942   | 75,664    | 492,554    | 92,379                |
| Local.....              | 69                          | 247,740                               | 115,867                 | 120,762    | .....     | .....     | .....      | 11,111                |
| Fourth.....             | 186                         | 2,471,286                             | 349,282                 | 826,346    | 610,141   | 50,333    | 590,382    | 44,802                |
| Shipping.....           | 20                          | 2,333,758                             | 285,031                 | 755,099    | 610,141   | 50,333    | 590,382    | 42,772                |
| Local.....              | 166                         | 137,528                               | 64,251                  | 71,247     | .....     | .....     | .....      | 2,030                 |
| Fifth.....              | 71                          | 5,174,966                             | 1,940,961               | 1,513,065  | 58,938    | 210,148   | 693,380    | 758,474               |
| Shipping.....           | 34                          | 5,002,440                             | 1,817,457               | 1,476,374  | 58,938    | 207,460   | 689,280    | 752,931               |
| Local.....              | 37                          | 172,526                               | 123,504                 | 86,691     | .....     | 2,688     | 4,100      | 5,543                 |
| Sixth.....              | 40                          | 6,014,872                             | 1,326,371               | 2,201,473  | 796,033   | 283,301   | 1,237,594  | 170,100               |
| Shipping.....           | 35                          | 5,928,518                             | 1,302,615               | 2,167,105  | 767,803   | 283,301   | 1,237,594  | 170,100               |
| Local.....              | 5                           | 86,354                                | 23,756                  | 34,368     | 28,230    | .....     | .....      | .....                 |
| Seventh.....            | 30                          | 7,201,251                             | 1,668,374               | 3,252,973  | 462,334   | 117,334   | 807,016    | 893,220               |
| Shipping.....           | 23                          | 7,170,963                             | 1,648,236               | 3,244,220  | 462,334   | 117,334   | 807,016    | 891,823               |
| Local.....              | 7                           | 30,288                                | 20,138                  | 8,753      | .....     | .....     | .....      | 1,397                 |
| Eighth.....             | 40                          | 5,854,645                             | 1,151,090               | 2,504,034  | 403,147   | 324,598   | 1,198,505  | 273,271               |
| Shipping.....           | 29                          | 5,801,039                             | 1,123,822               | 2,482,809  | 403,147   | 324,598   | 1,198,505  | 268,158               |
| Local.....              | 11                          | 53,606                                | 27,268                  | 21,225     | .....     | .....     | .....      | 5,113                 |
| Ninth.....              | 75                          | 4,516,548                             | 706,041                 | 2,425,970  | 90,312    | 142,777   | 870,292    | 281,156               |
| Shipping.....           | 58                          | 4,409,341                             | 602,208                 | 2,422,996  | 89,912    | 142,777   | 870,292    | 281,156               |
| Local.....              | 17                          | 107,207                               | 103,833                 | 2,974      | 400       | .....     | .....      | .....                 |
| Tenth.....              | 65                          | 3,091,428                             | 1,583,848               | 743,288    | 115,288   | 101,268   | 474,840    | 72,896                |
| Shipping.....           | 40                          | 3,023,344                             | 1,546,403               | 721,285    | 115,288   | 101,183   | 473,100    | 66,085                |
| Local.....              | 25                          | 68,084                                | 37,445                  | 22,003     | .....     | 85        | 1,740      | 6,811                 |
| Eleventh.....           | 57                          | 8,220,784                             | 1,233,291               | 2,827,498  | 936,806   | 704,922   | 2,366,533  | 151,734               |
| Shipping.....           | 38                          | 8,198,472                             | 1,224,211               | 2,818,444  | 936,806   | 701,202   | 2,366,533  | 151,276               |
| Local.....              | 19                          | 22,312                                | 9,080                   | 9,054      | .....     | 3,720     | .....      | 458                   |
| Twelfth.....            | 49                          | 7,090,425                             | 2,144,580               | 1,221,984  | 771,561   | 1,141,434 | 1,622,076  | 188,790               |
| Shipping.....           | 34                          | 7,058,621                             | 2,126,557               | 1,209,533  | 771,111   | 1,141,029 | 1,622,076  | 188,315               |
| Local.....              | 15                          | 31,804                                | 18,023                  | 12,451     | 450       | 405       | .....      | 475                   |
| The State.....          | 879                         | 57,514,240                            | 13,366,509              | 21,795,527 | 4,940,431 | 3,193,956 | 11,109,191 | 3,108,626             |
| Shipping.....           | 380                         | 56,096,695                            | 12,602,814              | 21,255,652 | 4,910,566 | 3,177,996 | 11,088,548 | 3,061,119             |
| Local.....              | 499                         | 1,417,545                             | 763,695                 | 539,875    | 29,865    | 15,960    | 20,643     | 47,507                |

TABLE 68—*Summary by districts of the total tons, disposition of the total output, animals under ground and number of mines lighted by electricity.*

| Districts and mines. | Total tons produced. | Disposition of output—tons. |                          |                      |                                   | Animals underground. |        | Mines lighted by electricity number. |
|----------------------|----------------------|-----------------------------|--------------------------|----------------------|-----------------------------------|----------------------|--------|--------------------------------------|
|                      |                      | Shipped from mine.          | Supplied to locomotives. | Sold to local trade. | Consumed and wasted at the mines. | Horses.              | Mules. |                                      |
| First.....           | 2,612,556            | 1,892,803                   | 69,102                   | 225,377              | 425,274                           | .....                | 504    | 16                                   |
| Shipping.....        | 2,351,330            | 1,892,803                   | 69,102                   | 144,941              | 244,484                           | .....                | 504    | 16                                   |
| Local.....           | 261,226              | .....                       | .....                    | 80,436               | 180,790                           | .....                | .....  | .....                                |
| Second.....          | 2,250,393            | 1,874,232                   | 32,424                   | 239,560              | 104,177                           | 1                    | 546    | 8                                    |
| Shipping.....        | 2,051,523            | 1,874,232                   | 32,424                   | 47,341               | 97,526                            | 1                    | 546    | 8                                    |
| Local.....           | 198,870              | .....                       | .....                    | 192,219              | 6,651                             | .....                | .....  | .....                                |
| Third.....           | 3,015,086            | 2,502,512                   | 57,935                   | 315,179              | 139,460                           | .....                | 387    | 17                                   |
| Shipping.....        | 2,767,346            | 2,502,512                   | 57,935                   | 115,533              | 91,366                            | .....                | 387    | 17                                   |
| Local.....           | 247,740              | .....                       | .....                    | 199,646              | 48,094                            | .....                | .....  | .....                                |
| Fourth.....          | 2,471,286            | 2,220,140                   | 33,960                   | 150,405              | 66,781                            | 8                    | 332    | 3                                    |
| Shipping.....        | 2,333,758            | 2,220,140                   | 33,960                   | 16,415               | 63,243                            | 8                    | 332    | 3                                    |
| Local.....           | 137,528              | .....                       | .....                    | 133,990              | 3,538                             | .....                | .....  | .....                                |
| Fifth.....           | 5,174,966            | 4,397,168                   | 71,712                   | 471,537              | 234,549                           | .....                | 441    | 21                                   |
| Shipping.....        | 5,002,440            | 4,397,168                   | 71,712                   | 373,582              | 159,978                           | .....                | 441    | 21                                   |
| Local.....           | 172,526              | .....                       | .....                    | 97,955               | 74,571                            | .....                | .....  | .....                                |
| Sixth.....           | 6,014,872            | 5,326,081                   | 97,039                   | 406,874              | 184,878                           | 3                    | 664    | 23                                   |
| Shipping.....        | 5,928,518            | 5,326,081                   | 97,039                   | 326,115              | 179,283                           | 3                    | 664    | 23                                   |
| Local.....           | 86,354               | .....                       | .....                    | 80,759               | 5,595                             | .....                | .....  | .....                                |
| Seventh.....         | 7,201,251            | 6,759,975                   | 58,688                   | 119,873              | 262,715                           | 20                   | 462    | 22                                   |
| Shipping.....        | 7,170,963            | 6,759,975                   | 58,688                   | 91,549               | 260,751                           | 20                   | 462    | 22                                   |
| Local.....           | 30,288               | .....                       | .....                    | 28,324               | 1,964                             | .....                | .....  | .....                                |
| Eighth.....          | 5,854,645            | 5,280,799                   | 210,959                  | 155,437              | 207,450                           | .....                | 492    | 21                                   |
| Shipping.....        | 5,801,039            | 5,280,799                   | 210,959                  | 122,226              | 187,055                           | .....                | 492    | 21                                   |
| Local.....           | 53,606               | .....                       | .....                    | 33,211               | 20,395                            | .....                | .....  | .....                                |
| Ninth.....           | 4,516,548            | 3,966,571                   | 132,368                  | 203,331              | 214,278                           | .....                | 424    | 4                                    |
| Shipping.....        | 4,409,341            | 3,966,571                   | 132,368                  | 98,836               | 211,566                           | .....                | 424    | 4                                    |
| Local.....           | 107,207              | .....                       | .....                    | 104,495              | 2,712                             | .....                | .....  | .....                                |
| Tenth.....           | 3,091,428            | 2,712,107                   | 105,410                  | 147,590              | 126,321                           | .....                | 314    | 14                                   |
| Shipping.....        | 3,023,344            | 2,712,107                   | 105,410                  | 84,265               | 121,562                           | .....                | 314    | 14                                   |
| Local.....           | 68,084               | .....                       | .....                    | 63,325               | 4,759                             | .....                | .....  | .....                                |

Table 68—Concluded.

| Districts and mines. | Total tons produced. | Disposition of output—tons. |                          |                      |                                   | Animals underground. |        | Mines lighted by electricity number. |
|----------------------|----------------------|-----------------------------|--------------------------|----------------------|-----------------------------------|----------------------|--------|--------------------------------------|
|                      |                      | Shipped from mine.          | Supplied to locomotives. | Sold to local trade. | Consumed and wasted at the mines. | Horses.              | Mules. |                                      |
| Eleventh.....        | 8,220,784            | 7,876,035                   | 47,656                   | 111,133              | 185,960                           | 5                    | 565    | 31                                   |
| Shipping.....        | 8,198,472            | 7,876,035                   | 47,656                   | 89,091               | 185,690                           | 5                    | 565    | 31                                   |
| Local.....           | 22,312               |                             |                          | 22,042               | 270                               |                      |        |                                      |
| Twelfth.....         | 7,090,425            | 6,693,959                   | 7,601                    | 69,382               | 319,483                           | 1                    | 575    | 27                                   |
| Shipping.....        | 7,068,621            | 6,693,959                   | 7,601                    | 39,543               | 317,518                           | 1                    | 575    | 27                                   |
| Local.....           | 31,804               |                             |                          | 29,839               | 1,965                             |                      |        |                                      |
| The State.....       | 57,514,240           | 51,502,382                  | 924,854                  | 2,615,678            | 2,471,326                         | 38                   | 5,706  | 207                                  |
| Shipping.....        | 56,096,695           | 51,502,382                  | 924,854                  | 1,549,437            | 2,120,022                         | 38                   | 5,706  | 207                                  |
| Local.....           | 1,417,545            |                             |                          | 1,066,241            | 351,304                           |                      |        |                                      |

TABLE 69—Summary by districts, tons mined by hand and machines, price for mining, machines, powder—1912.

| Districts and mines. | Tons mined by— |          | Average price paid per ton for— |                 | Machines.              |                | Powder.                 |                     |
|----------------------|----------------|----------|---------------------------------|-----------------|------------------------|----------------|-------------------------|---------------------|
|                      | Hand.          | Machine. | Hand mining.                    | Machine mining. | Number of mines using. | Number in use. | Used for blasting coal. | For other purposes. |
| First.....           | 2,605,756      | 6,800    | \$0.871                         |                 | 1                      | 1              | 26,754                  | 683                 |
| Shipping....         | 2,351,330      |          | \$0.881                         |                 |                        |                | 18,413                  | 586                 |
| Local.....           | 254,426        | 6,800    | 0.71                            |                 | 1                      | 1              | 8,341                   | 97                  |
| Second.....          | 2,240,893      | 9,500    | \$0.85                          | \$0.525         | 1                      | 2              | 26,348                  | 330                 |
| Shipping....         | 2,042,023      | 9,500    | \$0.838                         | \$0.525         | 1                      | 2              | 19,664                  | 330                 |
| Local.....           | 198,870        |          | 9.979                           |                 |                        |                | 6,684                   |                     |
| Third.....           | 2,762,628      | 252,458  | \$0.576                         | \$0.576         | 5                      | 21             | 89,010                  | 385                 |
| Shipping....         | 2,514,888      | 252,458  | \$0.576                         | \$0.576         | 5                      | 21             | 77,931                  | 385                 |
| Local.....           | 247,740        |          | 0.762                           |                 |                        |                | 11,079                  |                     |
| Fourth.....          | 2,075,753      | 395,533  | \$0.673                         | \$0.58          | 3                      | 23             | 120,941                 | 232                 |
| Shipping....         | 1,938,225      | 395,533  | \$0.655                         | \$0.58          | 3                      | 23             | 115,579                 | 232                 |
| Local.....           | 137,528        |          | 0.935                           |                 |                        |                | 5,362                   |                     |
| Fifth.....           | 4,262,235      | 912,731  | \$0.597                         | \$0.49          | 7                      | 51             | 157,000                 | 389                 |
| Shipping....         | 4,089,709      | 912,731  | \$0.594                         | \$0.49          | 7                      | 51             | 151,402                 | 389                 |
| Local.....           | 172,526        |          | 0.681                           |                 |                        |                | 5,598                   |                     |

Table 69—Concluded.

| Districts<br>and mines. | Tons mined by— |            | Average<br>price paid per<br>ton for— |                    | Machines.                       |                   | Powder.                          |                        |
|-------------------------|----------------|------------|---------------------------------------|--------------------|---------------------------------|-------------------|----------------------------------|------------------------|
|                         | Hand.          | Machine.   | Hand<br>mining.                       | Machine<br>mining. | Number<br>of<br>mines<br>using. | Number<br>in use. | Used<br>for<br>blasting<br>coal. | For other<br>purposes. |
| Sixth.....              | 5,174,082      | 840,790    | \$0.596                               | \$0.51             | 2                               | 29                | 252,472                          | 225                    |
| Shipping....            | 5,087,728      | 840,790    | \$0.596                               | \$0.51             | 2                               | 29                | 248,503                          | 225                    |
| Local.....              | 86,354         |            | 0.59                                  |                    |                                 |                   | 3,970                            |                        |
| Seventh.....            | 1,579,282      | 5,621,969  | \$0.58                                | \$0.51             | 17                              | 323               | 91,740                           | 633                    |
| Shipping....            | 1,566,468      | 5,604,495  | \$0.58                                | \$0.51             | 16                              | 322               | 91,359                           | 633                    |
| Local.....              | 12,814         | 17,474     | 0.731                                 |                    | 1                               | 1                 | 381                              |                        |
| Eighth.....             | 2,156,400      | 3,698,245  | \$0.577                               | \$0.509            | 17                              | 235               | 112,455                          | 36                     |
| Shipping....            | 2,103,994      | 3,697,045  | \$0.576                               | \$0.509            | 16                              | 232               | 110,733                          | 36                     |
| Local.....              | 52,406         | 1,200      | 0.629                                 | 0.51               | 1                               | 3                 | 1,722                            |                        |
| Ninth.....              | 2,288,726      | 2,227,862  | \$0.58                                | \$0.525            | 18                              | 178               | 100,943                          | 4                      |
| Shipping....            | 2,189,769      | 2,219,612  | \$0.58                                | \$0.525            | 17                              | 176               | 97,694                           | 4                      |
| Local.....              | 98,957         | 8,250      | 0.58                                  | 0.56               | 1                               | 2                 | 3,249                            |                        |
| Tenth.....              | 1,397,722      | 1,693,706  | \$0.555                               | \$0.498            | 18                              | 130               | 67,801                           | 57                     |
| Shipping....            | 1,238,219      | 1,685,125  | \$0.555                               | \$0.497            | 17                              | 127               | 65,711                           | 57                     |
| Local.....              | 59,503         | 8,581      | 0.609                                 | 0.62               | 1                               | 3                 | 2,090                            |                        |
| Eleventh.....           | 8,857,742      | 7,335,042  | \$0.544                               | \$0.469            | 33                              | 390               | 80,969                           |                        |
| Shipping....            | 863,430        | 7,335,042  | \$0.54                                | \$0.469            | 33                              | 390               | *80,122                          |                        |
| Local.....              | 22,312         |            | 0.675                                 |                    |                                 |                   | 847                              |                        |
| Twelfth.....            | 4,535,002      | 2,555,423  | \$0.541                               | \$0.47             | 15                              | 198               | 187,014                          | 66                     |
| Shipping....            | 4,503,198      | 2,555,423  | \$0.54                                | \$0.47             | 15                              | 198               | 186,203                          | 66                     |
| Local.....              | 31,804         |            | 0.602                                 |                    |                                 |                   | 811                              |                        |
| The State.....          | 31,964,221     | 25,550,059 | \$0.641                               | \$0.496            | 137                             | 1,581             | 1,313,448                        | 3,040                  |
| Shipping....            | 30,588,981     | 25,507,754 | \$0.636                               | \$0.496            | 132                             | 1,571             | 1,263,314                        | 2,943                  |
| Local.....              | 1,375,240      | 42,305     | 0.764                                 | 0.494              | 5                               | 10                | 50,134                           | 97                     |

\* Pounds of permissible explosives 328,075.

TABLE 70—*Summary by districts, employees, days in operation, casualties—1912.*

| Districts.<br>and mines. | Total<br>number<br>employés. | Employees. |                            |                          |                         | Average<br>days of<br>opera-<br>tion. | Casualties. |          |
|--------------------------|------------------------------|------------|----------------------------|--------------------------|-------------------------|---------------------------------------|-------------|----------|
|                          |                              | Miners.    | Others<br>under<br>ground. | Boys<br>under<br>ground. | All<br>above<br>ground. |                                       | Killed.     | Injured. |
| First.....               | 5,936                        | 4,344      | 924                        | 102                      | 566                     | 189                                   | 8           | 68       |
| Shipping.....            | 5,437                        | 3,978      | 882                        | 93                       | 484                     | 202                                   | 7           | 75       |
| Local.....               | 499                          | 366        | 42                         | 9                        | 82                      | 196                                   | 1           | 3        |
| Second.....              | 5,088                        | 3,731      | 817                        | 122                      | 418                     | 162                                   | 6           | 88       |
| Shipping.....            | 4,529                        | 3,270      | 813                        | 121                      | 325                     | 109                                   | 4           | 86       |
| Local.....               | 559                          | 461        | 4                          | 1                        | 93                      | 144                                   | 2           | 2        |
| Third.....               | 5,264                        | 3,674      | 997                        | 101                      | 492                     | 172                                   | 7           | 21       |
| Shipping.....            | 4,871                        | 3,364      | 997                        | 94                       | 416                     | 205                                   | 6           | 21       |
| Local.....               | 393                          | 310        | .....                      | 7                        | 76                      | 157                                   | 1           | .....    |
| Fourth.....              | 4,095                        | 2,689      | 1,016                      | 42                       | 348                     | 146                                   | 7           | 5        |
| Shipping.....            | 3,540                        | 2,207      | 1,016                      | 42                       | 275                     | 183                                   | 5           | 4        |
| Local.....               | 555                          | 482        | .....                      | .....                    | 73                      | 141                                   | 2           | 1        |
| Fifth.....               | 7,018                        | 4,337      | 1,994                      | 121                      | 566                     | 178                                   | 21          | 92       |
| Shipping.....            | 6,707                        | 3,128      | 1,970                      | 112                      | 497                     | 185                                   | 21          | 92       |
| Local.....               | 311                          | 209        | 24                         | 9                        | 69                      | 172                                   | .....       | .....    |
| Sixth.....               | 8,259                        | 5,243      | 2,184                      | 171                      | 661                     | 169                                   | 6           | 24       |
| Shipping.....            | 8,126                        | 5,162      | 2,184                      | 168                      | 622                     | 174                                   | 6           | 24       |
| Local.....               | 133                          | 91         | .....                      | 3                        | 39                      | 134                                   | .....       | .....    |
| Seventh.....             | 7,377                        | 2,040      | 4,599                      | 149                      | 589                     | 148                                   | 23          | 84       |
| Shipping.....            | 7,322                        | 2,004      | 4,598                      | 149                      | 571                     | 183                                   | 23          | 84       |
| Local.....               | 55                           | 36         | 1                          | .....                    | 18                      | 177                                   | .....       | .....    |
| Eighth.....              | 7,415                        | 2,352      | 4,141                      | 142                      | 680                     | 172                                   | 20          | 108      |
| Shipping.....            | 7,331                        | 2,389      | 4,141                      | 142                      | 659                     | 170                                   | 20          | 108      |
| Local.....               | 84                           | 64         | .....                      | .....                    | 21                      | 180                                   | .....       | .....    |
| Ninth.....               | 5,856                        | 2,605      | 2,637                      | 87                       | 527                     | 132                                   | 13          | 53       |
| Shipping.....            | 5,701                        | 2,490      | 2,637                      | 87                       | 487                     | 130                                   | 13          | 53       |
| Local.....               | 155                          | 115        | .....                      | .....                    | 40                      | 190                                   | .....       | .....    |
| Tenth.....               | 5,204                        | 2,555      | 2,071                      | 96                       | 492                     | 141                                   | 6           | 21       |
| Shipping.....            | 5,061                        | 2,475      | 2,037                      | 95                       | 454                     | 135                                   | 5           | 20       |
| Local.....               | 143                          | 80         | 24                         | 1                        | 38                      | 150                                   | 1           | 1        |
| Eleventh.....            | 9,377                        | 1,010      | 7,309                      | 161                      | 897                     | 179                                   | 40          | 123      |
| Shipping.....            | 9,321                        | 966        | 7,309                      | 159                      | 887                     | 194                                   | 40          | 123      |
| Local.....               | 56                           | 44         | .....                      | 2                        | 10                      | 148                                   | .....       | .....    |







Table 71—Continued.

## FULTON COUNTY.

| Number. | Name of operator.              | Post-office address of mine. | Geological number of seam. | Physical character of mines.          |                                    |                     |                              |                             |                                       |                             | Total tons. |
|---------|--------------------------------|------------------------------|----------------------------|---------------------------------------|------------------------------------|---------------------|------------------------------|-----------------------------|---------------------------------------|-----------------------------|-------------|
|         |                                |                              |                            | Depth of coal below the surface—feet. | Thickness of seam—feet and inches. | Shaft—slope, drift. | Hoisting—steam, horse, hand. | Long wall, pillar and room. | Haillage—hand, mule, cable, electric. | Mining—hand, machine, both. |             |
| 1       | Maplewood Colliery Co., No. 2. | Farmington                   | 5                          | 155                                   | 4.0                                | Sh.                 | St.                          | P. R.                       | M. C.                                 | Hd.                         | 303,500     |
| 2       | Big Creek Coal Co., No. 2      | St. David                    | 5                          | 60                                    | 4.6                                | Dr.                 | do.                          | do.                         | Motor                                 | Both.                       | 271,729     |
| 3       | Monmouth C. M. Co., No. 1.     | Brereton                     | 5                          | 158                                   | 4.8                                | Sh.                 | do.                          | do.                         | M. M.                                 | Hd.                         | 206,430     |
| 4       | Big Creek Coal Co., No. 4.     | Dunfermline                  | 5                          | 90                                    | 4.8                                | do.                 | do.                          | do.                         | Motor                                 | Both.                       | 190,460     |
| 5       | Alden Coal Co., No. 6.         | Norris                       | 5                          | 176                                   | 4.0                                | do.                 | do.                          | do.                         | Mule.                                 | Hd.                         | 166,179     |
| 6       | Canton Coal M. Co.             | Canton                       | 5                          | 60                                    | 4.8                                | do.                 | do.                          | do.                         | M. M.                                 | do.                         | 158,817     |
| 7       | Norris Coal M. Co., Norris.    | Norris                       | 5                          | 185                                   | 4.6                                | do.                 | do.                          | do.                         | Mule.                                 | do.                         | 156,331     |
| 8       | Eagle Mining Co., Eagle.       | Canton                       | 5                          | 100                                   | 5.0                                | do.                 | do.                          | do.                         | M. M.                                 | do.                         | 132,360     |
| 9       | Simmons Coal Co., Simmon       | do.                          | 5                          | 126                                   | 4.10                               | do.                 | do.                          | do.                         | Mule.                                 | do.                         | 126,463     |
| 10      | Star Coal Co., No. 1           | Cuba                         | 5                          | 90                                    | 4.10                               | Sl.                 | do.                          | do.                         | M. C.                                 | do.                         | 101,595     |
| 11      | Maplewood Coal Co., No. 1      | Farmington                   | 5                          | 120                                   | 4.0                                | Sh.                 | do.                          | do.                         | M. M.                                 | do.                         | 85,980      |
| 12      | Alden Coal Co., No. 5          | do.                          | 5                          | 171                                   | 4.0                                | do.                 | do.                          | do.                         | Mule.                                 | do.                         | 84,829      |
| 13      | National Coal M. Co., Nat.     | do.                          | 5                          | 100                                   | 4.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 73,471      |
| 14      | Star Coal Co., No. 3.          | Cuba                         | 5                          | 60                                    | 4.10                               | do.                 | do.                          | do.                         | do.                                   | do.                         | 69,109      |
| 15      | Star Coal Co., No. 2.          | do.                          | 5                          | 70                                    | 5.0                                | Sl.                 | do.                          | do.                         | M. C.                                 | do.                         | 68,558      |
| 16      | Silver Creek Col. Co., No. 1.  | Farmington                   | 5                          | 50                                    | 4.4                                | Sh.                 | do.                          | do.                         | Mule.                                 | Both.                       | 48,335      |
| 17      | Star Coal Co., No. 1.          | Fiatt                        | 5                          | 85                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                   | Hd.                         | 39,113      |
| 18      | Spoon River Coal., No. 1       | Mayton                       | 5                          | 40                                    | 4.6                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 27,444      |
| 19      | Coal Creek Mining Co.          | Fairview                     | 5                          | 60                                    | 4.10                               | Dr.                 | do.                          | do.                         | do.                                   | do.                         | 13,071      |
| 20      | Big Creek Coal Co., No. 5      | Cuba                         | 5                          | 50                                    | 4.8                                | Sh.                 | do.                          | do.                         | do.                                   | do.                         | 9,984       |
| 21      | George Westerby                | Farmington                   | 5                          | 125                                   | 4.0                                | do.                 | do.                          | do.                         | Mule.                                 | do.                         | 7,750       |
| 22      | W. C. Passent                  | Ellisville                   | 1                          | 40                                    | 4.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 6,500       |
| 23      | Neil Baxter                    | Canton                       | 5                          | 40                                    | 4.8                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 6,250       |
| 24      | Landis and Wages               | do.                          | 5                          | 60                                    | 4.6                                | Dr.                 | do.                          | do.                         | do.                                   | do.                         | 5,720       |
| 25      | Joe McLaughlin                 | do.                          | 5                          | 30                                    | 4.8                                | Sh.                 | Ho.                          | do.                         | do.                                   | do.                         | 3,200       |
| 26      | E. G. Boder                    | Astoria                      | 1                          | 40                                    | 6.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 3,000       |
| 27      | Jack Walch                     | Cuba                         | 5                          | 100                                   | 5.0                                | Dr.                 | do.                          | do.                         | do.                                   | do.                         | 3,000       |
| 28      | C. Q. Falkenstein              | Astoria                      | 1                          | 30                                    | 6.0                                | Sh.                 | do.                          | do.                         | Hd.                                   | do.                         | 2,500       |
| 29      | Adams and Irwin                | Canton                       | 5                          | 50                                    | 4.8                                | Sl.                 | St.                          | do.                         | Mule.                                 | do.                         | 2,160       |
| 30      | Jas. Yocum                     | Lewistown                    | 2                          | 75                                    | 2.6                                | Sh.                 | Ho.                          | do.                         | Hd.                                   | do.                         | 2,050       |
| 31      | E. C. Angle                    | Cuba                         | 5                          | 60                                    | 4.8                                | Dr.                 | Hd.                          | do.                         | do.                                   | do.                         | 2,020       |
| 32      | Sy Hilton                      | do.                          | 5                          | 75                                    | 4.6                                | Sl.                 | do.                          | do.                         | Mule.                                 | do.                         | 1,600       |
| 33      | O. W. Davis                    | Lewistown                    | 2                          | 45                                    | 2.6                                | Sh.                 | Ho.                          | do.                         | Hd.                                   | do.                         | 1,500       |
| 34      | Nicholas Bennett               | Cuba                         | 5                          | 35                                    | 4.8                                | Sl.                 | do.                          | do.                         | do.                                   | do.                         | 1,500       |
| 35      | E. L. Bishop                   | do.                          | 5                          | 75                                    | 5.0                                | Dr.                 | Hd.                          | do.                         | Mule.                                 | do.                         | 1,425       |
| 36      | A. J. Gunnett                  | Fairview                     | 5                          | 65                                    | 4.8                                | do.                 | do.                          | do.                         | Hd.                                   | do.                         | 1,355       |
| 37      | Bath Bros.                     | St. David                    | 5                          | 60                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 1,270       |
| 38      | W. C. Anderson                 | Canton                       | 5                          | 75                                    | 4.6                                | Sh.                 | Ho.                          | do.                         | Mule.                                 | do.                         | 1,250       |
| 39      | W. E. Morgrant                 | do.                          | 5                          | 65                                    | 5.0                                | Dr.                 | do.                          | do.                         | do.                                   | do.                         | 1,250       |
| 40      | Henry Vonack                   | Lewistown                    | 5                          | 45                                    | 5.0                                | Sl.                 | do.                          | do.                         | Hd.                                   | do.                         | 1,200       |
| 41      | Joseph Wilson                  | Astoria                      | 2                          | Dr.                                   | 2.6                                | Dr.                 | Hd.                          | do.                         | do.                                   | do.                         | 1,200       |
| 42      | Elmer Delong                   | Fairview                     | 6                          | 45                                    | 4.6                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 1,100       |
| 43      | Rand and Co.                   | St. David                    | 5                          | 70                                    | 5.0                                | Sl.                 | do.                          | do.                         | Mule.                                 | do.                         | 1,000       |
| 44      | Kingsley and Bitner            | Glasford                     | 5                          | 20                                    | 5.0                                | Dr.                 | do.                          | do.                         | do.                                   | do.                         | 1,000       |
| 45      | Frank Hubble                   | Avon                         | 5                          | 65                                    | 4.10                               | Sl.                 | Ho.                          | do.                         | Hd.                                   | do.                         | 1,000       |
| 46      | Ed. Clarkson                   | Fairview                     | 5                          | 35                                    | 4.2                                | do.                 | Hd.                          | do.                         | do.                                   | do.                         | 1,000       |
| 47      | Dan Coplinger                  | Cuba                         | 5                          | 80                                    | 5.0                                | Dr.                 | do.                          | do.                         | do.                                   | do.                         | 1,000       |
| 48      | John Johnson                   | St. David                    | 5                          | 75                                    | 5.0                                | Sl.                 | do.                          | do.                         | do.                                   | do.                         | 1,000       |
| 49      | G. F. Memmnis Bros             | Breeds                       | 5                          | 75                                    | 4.10                               | Dr.                 | do.                          | do.                         | do.                                   | do.                         | 960         |
| 50      | A. M. Eyman                    | Lewistown                    | 2                          | 40                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 950         |
| 51      | Joseph McCanant                | Table Grove                  | 5                          | 50                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 900         |
| 52      | John Gillett                   | Glasford                     | 5                          | 65                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 900         |
| 53      | P. Taylor                      | do.                          | 5                          | 70                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 900         |
| 54      | E. S. Mason                    | Canton                       | 5                          | 85                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 900         |
| 55      | C. F. Romden                   | Cuba                         | 5                          | 60                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 872         |
| 56      | John Whitehead                 | Maple Mills                  | 5                          | 50                                    | 4.10                               | do.                 | do.                          | do.                         | do.                                   | do.                         | 800         |
| 57      | Will Johnson                   | Cuba                         | 5                          | 50                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 800         |
| 58      | Fred Nanneker                  | Marietta                     | 2                          | 40                                    | 2.6                                | Sh.                 | Ho.                          | do.                         | do.                                   | do.                         | 800         |
| 59      | Harvey Johnson                 | Breeds                       | 5                          | 75                                    | 5.0                                | Dr.                 | Hd.                          | do.                         | do.                                   | do.                         | 800         |
| 60      | Brickert & Newberry            | Lewistown                    | 2                          | 50                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 750         |
| 61      | Silas Simpson                  | Cuba                         | 5                          | 100                                   | 5.0                                | do.                 | do.                          | do.                         | do.                                   | do.                         | 750         |

Table 71—Continued.

## FULTON COUNTY—Continued.

| Number. | Name of operator.       | Post-office address of mine. | Physical character of mines. |                                       |                                    |                     |                              |                             |                                      |                             | Total tons. |
|---------|-------------------------|------------------------------|------------------------------|---------------------------------------|------------------------------------|---------------------|------------------------------|-----------------------------|--------------------------------------|-----------------------------|-------------|
|         |                         |                              | Geological number of seam.   | Depth of coal below the surface—feet. | Thickness of seam—feet and inches. | Shaft—slope, drift. | Hoisting—steam, horse, hand. | Long wall, pillar and room. | Haulage—hand, mule, cable, electric. | Mining—hand, machine, both. |             |
| 62      | Jas. Olliver.....       | Marietta.....                | 2                            | 60                                    | 2.6                                | Dr.                 | Hd.                          | P. R.                       | Hd...                                | Hd...                       | 700         |
| 63      | Don. Valentine.....     | Summun.....                  | 1                            | 15                                    | 3.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 700         |
| 64      | Ross Parr.....          | Astoria.....                 | 1                            | 30                                    | 6.0                                | Sh.                 | Ho.                          | do.                         | do.                                  | do.                         | 700         |
| 65      | Henry Vice.....         | Fairview.....                | 5                            | 65                                    | 4.10                               | Dr.                 | Hd.                          | do.                         | do.                                  | do.                         | 680         |
| 66      | E. H. Miller.....       | Marietta.....                | 2                            | 70                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 650         |
| 67      | Lafe Swearinger.....    | Table Grove.....             | 2                            | 65                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 650         |
| 68      | William Taylor.....     | Canton.....                  | 5                            | 35                                    | 5.0                                | Sl.                 | Ho.                          | do.                         | do.                                  | do.                         | 620         |
| 69      | W. A. Sheets.....       | Fairview.....                | 5                            | 45                                    | 4.8                                | Dr.                 | Hd.                          | do.                         | do.                                  | do.                         | 615         |
| 70      | Geo. H. Stambaugh.....  | Summun.....                  | 1                            | 42                                    | 5.10                               | Sh.                 | Ho.                          | do.                         | do.                                  | do.                         | 600         |
| 71      | Thos. Anderson.....     | Marietta.....                | 2                            | 45                                    | 2.6                                | Dr.                 | Hd.                          | do.                         | do.                                  | do.                         | 600         |
| 72      | Jess Lindsey.....       | Lewistown.....               | 2                            | 70                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 600         |
| 73      | W. F. McBride.....      | Fairview.....                | 6                            | 50                                    | 4.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 600         |
| 74      | John Stufflebean.....   | Lewistown.....               | 2                            | 65                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 600         |
| 75      | White & Price.....      | Canton.....                  | 5                            | 50                                    | 5.0                                | Sl.                 | do.                          | do.                         | do.                                  | do.                         | 600         |
| 76      | J. W. Williams.....     | Fiatt.....                   | 5                            | 60                                    | 5.0                                | Dr.                 | do.                          | do.                         | do.                                  | do.                         | 600         |
| 77      | D. B. King.....         | Marietta.....                | 2                            | 65                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 600         |
| 78      | Chas. Taylor.....       | Avon.....                    | 5                            | 60                                    | 4.6                                | Sl.                 | Ho.                          | do.                         | do.                                  | do.                         | 600         |
| 79      | Joseph Bartley.....     | Canton.....                  | 5                            | 60                                    | 4.10                               | Dr.                 | Hd.                          | do.                         | do.                                  | do.                         | 600         |
| 80      | W. M. Robb & Son.....   | Norris.....                  | 5                            | 75                                    | 4.2                                | Sl.                 | St.                          | do.                         | do.                                  | do.                         | 575         |
| 81      | Geo. Smear.....         | Fairview.....                | 5                            | 60                                    | 4.11                               | Dr.                 | Hd.                          | do.                         | do.                                  | do.                         | 520         |
| 82      | W. M. Lee.....          | Ipava.....                   | 5                            | 60                                    | 4.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 500         |
| 83      | C. W. Dair.....         | Banner.....                  | 5                            | 120                                   | 5.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 500         |
| 84      | W. M. Morris.....       | Norris.....                  | 6                            | 45                                    | 4.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 500         |
| 85      | H. H. Muir.....         | Fairview.....                | 5                            | 60                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 500         |
| 86      | Guy Muchaft.....        | Fiatt.....                   | 5                            | 65                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 500         |
| 87      | M. J. Johnson.....      | Canton.....                  | 5                            | 50                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 500         |
| 88      | Frank Kruzann.....      | Ipava.....                   | 2                            | 65                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 450         |
| 89      | N. C. Morgan.....       | Cuba.....                    | 5                            | 45                                    | 4.11                               | do.                 | do.                          | do.                         | do.                                  | do.                         | 440         |
| 90      | French & Hedge.....     | Breeds.....                  | 5                            | 90                                    | 4.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 435         |
| 91      | J. R. Lingenfelter..... | Canton.....                  | 5                            | 50                                    | 4.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 420         |
| 92      | Edward Stanley.....     | Maple Mills.....             | 5                            | 40                                    | 4.10                               | do.                 | do.                          | do.                         | do.                                  | do.                         | 410         |
| 93      | G. A. Brush.....        | Marietta.....                | 2                            | 65                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 400         |
| 94      | Lewis Clark.....        | Lewistown.....               | 2                            | 70                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 400         |
| 95      | J. H. Fouts.....        | Maple Mills.....             | 5                            | 50                                    | 4.10                               | do.                 | do.                          | do.                         | do.                                  | do.                         | 400         |
| 96      | Furnace & Diamond.....  | Astoria.....                 | 2                            | 100                                   | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 396         |
| 97      | Chas. Cole.....         | Avon.....                    | 2                            | 65                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 350         |
| 98      | L. Crusan.....          | Lewistown.....               | 2                            | 75                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 350         |
| 99      | B. R. Kelley.....       | Cuba.....                    | 5                            | 60                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 350         |
| 100     | R. C. Green.....        | Ipava.....                   | 2                            | 40                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 350         |
| 101     | Will Martin.....        | Cuba.....                    | 5                            | 120                                   | 5.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 350         |
| 102     | Sylvester Wade.....     | Canton.....                  | 5                            | 65                                    | 4.6                                | Sl.                 | do.                          | do.                         | do.                                  | do.                         | 320         |
| 103     | Eric Emanuelson.....    | Maple Mills.....             | 5                            | 60                                    | 4.10                               | Dr.                 | do.                          | do.                         | do.                                  | do.                         | 300         |
| 104     | Geo. Carrison.....      | Ipava.....                   | 2                            | 45                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 300         |
| 105     | J. H. Pollett.....      | Cuba.....                    | 5                            | 120                                   | 5.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 300         |
| 106     | Dan-Ballinger.....      | do.....                      | 5                            | 125                                   | 5.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 300         |
| 107     | Johnson & Lee.....      | Breeds.....                  | 5                            | 80                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 300         |
| 108     | Harry Ellsworth.....    | Lewistown.....               | 2                            | 60                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 300         |
| 109     | M. R. Parks.....        | Glasford.....                | 5                            | 75                                    | 4.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 300         |
| 110     | Will Hubble.....        | Avon.....                    | 2                            | 60                                    | 3.0                                | Sh.                 | Ho.                          | do.                         | do.                                  | do.                         | 300         |
| 111     | Wm Martin.....          | Cuba.....                    | 5                            | 50                                    | 4.10                               | Dr.                 | Hd.                          | do.                         | do.                                  | do.                         | 300         |
| 112     | James Conn.....         | Ipava.....                   | 5                            | 60                                    | 4.6                                | Sh.                 | Ho.                          | do.                         | do.                                  | do.                         | 250         |
| 113     | Frank Foutch.....       | Astoria.....                 | 2                            | 60                                    | 2.8                                | Dr.                 | Hd.                          | do.                         | do.                                  | do.                         | 250         |
| 114     | H. A. Wilson.....       | Cuba.....                    | 5                            | 125                                   | 4.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 250         |
| 115     | Martin Smith.....       | Marietta.....                | 2                            | 65                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 250         |
| 116     | Herbert Wilcoxon.....   | Lewistown.....               | 2                            | 65                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 250         |
| 117     | J. R. Collins.....      | do.....                      | 2                            | 65                                    | 2.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 250         |
| 118     | W. E. Hornbeck.....     | Rapatee.....                 | 5                            | 75                                    | 4.4                                | Sl.                 | Ho.                          | do.                         | do.                                  | do.                         | 200         |
| 119     | Betner & Kingsley.....  | Glasford.....                | 5                            | 65                                    | 4.10                               | do.                 | Hd.                          | do.                         | do.                                  | do.                         | 200         |
| 120     | E. E. Post.....         | Cuba.....                    | 5                            | 75                                    | 5.0                                | Dr.                 | do.                          | do.                         | do.                                  | do.                         | 180         |
| 121     | Dan Weise.....          | Ipava.....                   | 5                            | 65                                    | 4.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 175         |
| 122     | J. D. Chute.....        | Cuba.....                    | 5                            | 50                                    | 5.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 160         |



Table 71—Continued.

## HANCOCK COUNTY.

| Number. | Name of operator. | Post-office address of mine. | Physical character of mines. |                                       |                                    |                     |                              |                             |                                      |                             | Total tons. |
|---------|-------------------|------------------------------|------------------------------|---------------------------------------|------------------------------------|---------------------|------------------------------|-----------------------------|--------------------------------------|-----------------------------|-------------|
|         |                   |                              | Geological number of seam.   | Depth of coal below the surface—feet. | Thickness of seam—feet and inches. | Shaft—slope, drift. | Hoisting—steam, horse, hand. | Long wall, pillar and room. | Haulage—hand, mule, cable, electric. | Mining—hand, machine, both. |             |
| 1       | Meredith Bros.    | Augusta                      | 2                            | 63                                    | 2.6                                | Sh.                 | Ho.                          | P. R.                       | Hd.                                  | Hd.                         | 2,920       |
|         | Total—1 mine      |                              |                              |                                       |                                    |                     |                              |                             |                                      |                             | 2,920       |

## HENRY COUNTY.

|    |                         |             |   |     |     |     |     |       |      |     |        |
|----|-------------------------|-------------|---|-----|-----|-----|-----|-------|------|-----|--------|
| 1  | Kewanee Coal Co., No. 2 | Kewanee     | 6 | 100 | 4.0 | Sh. | St. | P. R. | Mule | Hd. | 42,995 |
| 2  | Kewanee Coop. Coal Co.  | do.         | 6 | 60  | 4.0 | do. | do. | do.   | Hd.  | do. | 13,100 |
| 3  | Fred Hensy              | do.         | 6 | 50  | 4.0 | SL  | do. | do.   | Mule | do. | 7,300  |
| 4  | Matt Atkinson           | do.         | 6 | 18  | 4.0 | do. | Ho. | do.   | Hd.  | do. | 5,160  |
| 5  | Grice Coal Co.          | do.         | 6 | 45  | 4.0 | do. | St. | do.   | do.  | do. | 4,798  |
| 6  | E. S. Barlow            | do.         | 6 | 70  | 4.0 | Sh. | do. | do.   | do.  | do. | 2,078  |
| 7  | Todd Bros.              | do.         | 6 | 40  | 4.0 | SL  | Ho. | do.   | do.  | do. | 1,400  |
| 8  | Herman Hintz & Bro.     | Geneseo     | 1 | 40  | 4.0 | Sh. | do. | do.   | do.  | do. | 1,160  |
| 9  | Wilson & Swan           | Kewanee     | 6 | 45  | 4.6 | SL  | St. | do.   | do.  | do. | 1,100  |
| 10 | Chilton & Boggs         | do.         | 6 | 50  | 4.0 | do. | do. | do.   | do.  | do. | 1,020  |
| 11 | Jas Kemerling & Son     | do.         | 6 | 18  | 4.0 | Sh. | Ho. | do.   | do.  | do. | 1,000  |
| 12 | Bates Bros.             | do.         | 6 | 68  | 4.0 | do. | do. | do.   | do.  | do. | 954    |
| 13 | Frank E. Lane           | Cambridge   | 3 | 112 | 2.8 | do. | St. | do.   | Mule | do. | 898    |
| 14 | Joseph Engle & Son      | Galva       | 6 | 16  | 3.0 | SL  | do. | do.   | Hd.  | do. | 880    |
| 15 | Leo Malven              | Kewanee     | 6 | 30  | 4.0 | do. | Ho. | do.   | do.  | do. | 700    |
| 16 | D. O. Loy               | Atkinson    | 3 | 34  | 3.0 | Sh. | St. | do.   | do.  | do. | 560    |
| 17 | Donahoe Coal Co.        | Moline      | 1 | 15  | 5.0 | SL  | do. | do.   | Mule | do. | 540    |
| 18 | Rudolph Markle          | Briar Bluff | 1 |     | 3.6 | Dr. | Ho. | do.   | do.  | do. | 538    |
| 19 | J. F. Kincaide          | do.         | 1 |     | 4.6 | do. | do. | do.   | Hd.  | do. | 532    |
| 20 | Joseph Carter           | Kewanee     | 6 | 28  | 4.0 | Sh. | do. | do.   | do.  | do. | 270    |
| 21 | Kershaw & Kay           | Briar Bluff | 1 |     | 3.0 | Dr. | do. | do.   | Mule | do. | 89     |
| 22 | G. Wells                | do.         | 1 |     | 4.0 | do. | do. | do.   | do.  | do. | 70     |
| 23 | Fred Kershaw            | do.         | 1 |     | 4.0 | do. | Hd. | do.   | do.  | do. | 29     |
|    | Total—23 mines          |             |   |     |     |     |     |       |      |     | 87,171 |

## JACKSON COUNTY.

|    |                                |               |     |     |      |     |     |       |       |      |         |
|----|--------------------------------|---------------|-----|-----|------|-----|-----|-------|-------|------|---------|
| 1  | Big Muddy C. & I. Co., No. 9.  | Murphysboro   | 1&2 | 114 | 7.0  | Sh. | St. | P. R. | M. M. | Mac. | 216,445 |
| 2  | Muddy Valley Mining Co.        | Hallidayboro  | 6   | 165 | 9.0  | do. | do. | do.   | Cable | Hd.  | 173,242 |
| 3  | Big M. C. & I. Co., Harrison   | Murphysboro   | 1&2 | 160 | 6.0  | do. | do. | do.   | M. M. | Mac. | 114,271 |
| 4  | Gartside Coal Co., No. 4.      | do.           | 6   | 127 | 7.0  | do. | do. | do.   | Mule  | do.  | 68,977  |
| 5  | Gus Blair B. M. C. Co., No. 1. | do.           | 1&2 | 138 | 6.0  | do. | do. | do.   | C. M. | do.  | 64,189  |
| 6  | J. B. Kreikmeier C. Co.        | DeSoto        | 7   | 80  | 9.0  | do. | do. | do.   | Mule  | do.  | 26,749  |
| 7  | Gus Blair B. M. C. Co., No. 2. | Murphysboro   | 1&2 | 110 | 3.4  | do. | do. | do.   | do.   | do.  | 23,984  |
| 8  | Schmidgall Coal Co.            | do.           | 6   | 100 | 3.2  | do. | do. | do.   | do.   | do.  | 10,636  |
| 9  | J. B. Schimpf                  | Vergennes     | 6   | 51  | 4.6  | do. | do. | do.   | do.   | Hd.  | 8,300   |
| 10 | J. B. Wood                     | Carbondale    | 7   | 70  | 6.6  | do. | do. | do.   | do.   | do.  | 6,000   |
| 11 | H. S. Phillips                 | do.           | 6   | 22  | 7.0  | do. | do. | do.   | do.   | do.  | 3,200   |
| 12 | George W. Patrick              | do.           | 6   | 35  | 6.0  | SL  | do. | do.   | do.   | do.  | 2,000   |
| 13 | Wm. Bullar                     | DeSoto        | 6   | 30  | 7.0  | Sh. | do. | do.   | do.   | do.  | 1,500   |
| 14 | Phillips & Johnson M. Co.      | Carbondale    | 6   | 32  | 4.0  | do. | do. | do.   | do.   | do.  | 1,145   |
| 15 | Ab. Boden & J. Craig           | DeSoto        | 1   | 38  | 8.6  | do. | do. | do.   | do.   | do.  | 1,100   |
| 16 | Schimpf & Craig                | Ava           | 6   | 27  | 5.6  | do. | do. | do.   | do.   | do.  | 800     |
| 17 | W. F. Johnson                  | do.           | 2   | 25  | 4.0  | do. | do. | do.   | do.   | do.  | 800     |
| 18 | W. R. Campbell                 | Mathews       | 6   | 17  | 3.6  | do. | do. | do.   | do.   | do.  | 508     |
| 19 | Mike Kirby                     | Campbell Hill | 6   | 10  | 3.6  | do. | do. | do.   | do.   | do.  | 253     |
| 20 | Bane & Ellace                  | DeSoto        | 6   | 54  | 10.0 | do. | do. | do.   | do.   | do.  | 150     |
| 21 | V. L. Church                   | Ava           | 6   | 24  | 5.6  | do. | do. | do.   | do.   | do.  | 125     |
|    | Total—21 mines                 |               |     |     |      |     |     |       |       |      | 724,374 |















Table 71—Continued.

## MOULTRIE COUNTY.

| Number. | Name of operator.             | Post-office address of mine. | Physical character of mines. |                                       |                                    |                     |                              |                             |                                     |                             | Total tons. |
|---------|-------------------------------|------------------------------|------------------------------|---------------------------------------|------------------------------------|---------------------|------------------------------|-----------------------------|-------------------------------------|-----------------------------|-------------|
|         |                               |                              | Geological number of seam.   | Depth of coal below the surface—feet. | Thickness of seam—feet and inches. | Shaft—slope, drift. | Hoisting—steam, horse, hand. | Long wall, pillar and room. | Haulage—hand mule, cable, electric. | Mining—hand, machine, both. |             |
| 1       | Lovington C. M. Co., No. 1... | Lovington.....               | 6                            | 900                                   | 8.0                                | Sh..                | St..                         | P. R.                       | Mule.                               | Hd...                       | 54,162      |
|         | Total—1 mine.....             |                              |                              |                                       |                                    |                     |                              |                             |                                     |                             | 54,162      |

## MORGAN COUNTY.

|   |                   |                 |   |    |     |      |     |       |       |       |       |
|---|-------------------|-----------------|---|----|-----|------|-----|-------|-------|-------|-------|
| 1 | Fisher Bros.....  | Murraysville... | 6 | 63 | 4.0 | Sh.. | Hd. | P. R. | Hd... | Hd... | 1,085 |
|   | Total—1 mine..... |                 |   |    |     |      |     |       |       |       | 1,085 |

## PEORIA COUNTY.

|    |                                 |                 |   |     |     |      |      |       |       |       |         |
|----|---------------------------------|-----------------|---|-----|-----|------|------|-------|-------|-------|---------|
| 1  | Clark C. & C. Co., No. 2.....   | Peoria.....     | 5 | 105 | 4.0 | Sh.. | St.. | P. R. | M. M. | Hd... | 253,414 |
| 2  | Crescent Coal Co., No. 1.....   | do.....         | 5 | 200 | 4.6 | do.. | do.. | do..  | do..  | do..  | 180,325 |
| 3  | Deming & Cruickshank, No. 3.    | do.....         | 5 | 80  | 4.3 | do.. | do.. | do..  | Motor | do..  | 109,648 |
| 4  | Newsam Bros., No. 3.....        | Kingston Mines  | 5 | ... | 4.6 | do.. | do.. | do..  | do..  | do..  | 108,233 |
| 5  | Wolschlog Coöp. Coal Co.....    | Peoria.....     | 5 | 170 | 4.0 | do.. | do.. | do..  | do..  | do..  | 87,841  |
| 6  | Applegate & Lewis C. Co., H..   | Hanna City....  | 5 | 250 | 4.2 | do.. | do.. | do..  | M. M. | Mac.. | 51,503  |
| 7  | Brewster & Evans C. Co., W..    | Peoria.....     | 5 | 144 | 4.0 | Sl.. | do.. | do..  | Motor | Motor | 49,946  |
| 8  | Olympia C. & M. Co., Olympia    | Edwardsville... | 5 | ... | 4.0 | Dr.. | do.. | do..  | do..  | Hd... | 42,900  |
| 9  | Collier Coöp. Coal Co.....      | Bartonville.... | 5 | 120 | 4.6 | Sh.. | do.. | do..  | M. C. | do..  | 38,220  |
| 10 | Mapleton C. Co., Mapleton....   | Mapleton.....   | 5 | 160 | 4.8 | Sl.. | do.. | do..  | Mule. | do..  | 24,221  |
| 11 | Warsaw C. Co., Edwards.....     | Edwards.....    | 5 | 85  | 4.3 | Dr.. | do.. | do..  | M. M. | do..  | 22,312  |
| 12 | Lancaster L. C. & T. Co., K. M. | Kingston Mines  | 5 | ... | 4.6 | do.. | do.. | do..  | Mule. | do..  | 21,402  |
| 13 | Isaac Wantling & Co.....        | Peoria.....     | 5 | ... | 4.0 | do.. | do.. | do..  | do..  | do..  | 20,972  |
| 14 | German Coal Co.....             | Mapleton.....   | 5 | ... | 4.6 | Sl.. | do.. | do..  | M. C. | Mac.. | 15,214  |
| 15 | F. P. Schmidt.....              | Peoria.....     | 5 | ... | 4.2 | Dr.. | Ho.  | do..  | Mule. | Hd... | 45,361  |
| 16 | Winter Coal Co.....             | Bartonville.... | 5 | 100 | 4.6 | Sh.. | St.. | do..  | do..  | do..  | 27,000  |
| 17 | Treasure Coal Co.....           | do.....         | 5 | 182 | 4.6 | do.. | do.. | do..  | do..  | do..  | 15,471  |
| 18 | Hibberd & Sneddon & Co.....     | Peoria.....     | 5 | 26  | 4.4 | Sl.. | do.. | do..  | M. C. | do..  | 9,574   |
| 19 | Fisher & Blank.....             | do.....         | 5 | 100 | 4.0 | do.. | do.. | do..  | Cable | do..  | 8,000   |
| 20 | Mohn Coal Co.....               | do.....         | 5 | 100 | 4.0 | Sh.. | do.. | do..  | Mule. | do..  | 7,702   |
| 21 | Limestone Coal Co.....          | do.....         | 5 | 130 | 4.6 | do.. | do.. | do..  | do..  | do..  | 5,945   |
| 22 | John Meyer.....                 | Chillicothe.... | 5 | 25  | 2.9 | Sl.. | Ho.  | do..  | Hd... | do..  | 5,165   |
| 23 | P. Martin.....                  | Peoria.....     | 5 | 50  | 4.2 | Sh.. | St.. | do..  | do..  | do..  | 5,100   |
| 24 | Heitzman & Smith C. Co.....     | Mapleton.....   | 5 | 6   | 4.6 | Sl.. | do.. | do..  | do..  | do..  | 4,587   |
| 25 | Collier Bros.....               | Chillicothe.... | 5 | 87  | 4.0 | do.. | do.. | do..  | Mule. | do..  | 4,449   |
| 26 | Thomas Short.....               | Brimfield.....  | 5 | ... | 2.8 | Dr.. | Ho.  | do..  | Hd... | do..  | 4,000   |
| 27 | R. Taylor & Sons.....           | do.....         | 5 | 75  | 4.8 | Sh.. | do.. | do..  | do..  | do..  | 3,867   |
| 28 | James Dalton.....               | Elmwood.....    | 5 | 110 | 3.2 | do.. | do.. | do..  | do..  | do..  | 3,200   |
| 29 | Bell Coal Co.....               | Peoria.....     | 5 | ... | 4.0 | Dr.. | Ho.  | do..  | do..  | do..  | 3,000   |
| 30 | Keller Coal Co.....             | Bartonville.... | 5 | 15  | 4.4 | Sl.. | St.. | do..  | Mule. | do..  | 3,000   |
| 31 | Fair Oaks Coal Co.....          | Peoria.....     | 5 | 90  | 4.0 | Sh.. | do.. | do..  | do..  | do..  | 2,500   |
| 32 | Louis A. Schmidt.....           | do.....         | 5 | ... | 4.4 | Sl.. | do.. | do..  | do..  | do..  | 2,115   |
| 33 | Cahill & Strong.....            | Brimfield.....  | 5 | 75  | 4.8 | Sh.. | do.. | do..  | Hd... | do..  | 2,100   |
| 34 | Carl Goetz.....                 | Peoria.....     | 5 | 65  | 4.6 | do.. | do.. | do..  | do..  | do..  | 2,007   |
| 35 | John H. Smith.....              | Glasford.....   | 5 | 110 | 4.8 | Sl.. | do.. | do..  | do..  | do..  | 1,900   |
| 36 | Baker Bros.....                 | Kingston Mines  | 5 | 150 | 4.6 | Dr.. | Ho.  | do..  | do..  | do..  | 1,308   |
| 37 | George Vicory.....              | Peoria.....     | 5 | 300 | 4.0 | do.. | do.. | do..  | Mule. | do..  | 1,275   |
| 38 | Robert Scott.....               | Oak Hill.....   | 5 | ... | 3.6 | do.. | do.. | do..  | do..  | do..  | 1,200   |
| 39 | Henning & Clarkson.....         | Edwards.....    | 5 | ... | 4.0 | do.. | Dr.. | do..  | do..  | do..  | 1,060   |
| 40 | Thomas Jones.....               | Peoria.....     | 5 | ... | 4.0 | Sl.. | Ho.  | do..  | Hd... | do..  | 1,019   |
| 41 | J. W. Miller.....               | Laurea.....     | 5 | 33  | 4.0 | Sh.. | do.. | do..  | Mule. | do..  | 1,003   |
| 42 | Frank Martin.....               | Chillicothe.... | 5 | ... | 3.0 | Dr.. | Hd.  | do..  | do..  | do..  | 1,000   |

PEORIA COUNTY—*Concluded.*

[illegible]

PERRY COUNTY.

[illegible]



Table 71—Continued.

## SALINE COUNTY.

| Number.             | Name of operator.                 | Post-office address of mine. | Physical character of mines. |                                       |                                    |                     |                              |                             |                                      |                             | Total tons. |
|---------------------|-----------------------------------|------------------------------|------------------------------|---------------------------------------|------------------------------------|---------------------|------------------------------|-----------------------------|--------------------------------------|-----------------------------|-------------|
|                     |                                   |                              | Geological number of seam.   | Depth of coal below the surface—feet. | Thickness of seam—feet and inches. | Shaft—slope, drift. | Hoisting—steam, horse, hand. | Long wall, pillar and room. | Haulage—hand, mule, cable, electric. | Mining—hand, machine, both. |             |
| 1                   | O'Gara Coal Co., No. 9.....       | Harrisburg.....              | 5                            | 152                                   | 6.10                               | Sh..                | St..                         | P. R.                       | Motor                                | M. H.                       | 523,583     |
| 2                   | Saline Co. Coal Co., No. 2.....   | Ledford.....                 | 5                            | 100                                   | 7.0                                | do..                | do..                         | do..                        | Mule.                                | Mac..                       | 498,223     |
| 3                   | O'Gara Coal Co., No. 3.....       | Harrisburg.....              | 5                            | 233                                   | 6.1                                | do..                | do..                         | do..                        | Motor                                | M. H.                       | 383,685     |
| 4                   | O'Gara Coal Co., No. 1.....       | do.....                      | 5                            | 311                                   | 5.3                                | do..                | do..                         | do..                        | do..                                 | do..                        | 286,318     |
| 5                   | O'Gara Coal Co., No. 10.....      | do.....                      | 5                            | 406                                   | 4.8                                | do..                | do..                         | do..                        | do..                                 | Mac..                       | 265,945     |
| 6                   | Harrisburg South. C. Co. No. 1    | Eldorado.....                | 5                            | 336                                   | 5.8                                | do..                | do..                         | do..                        | do..                                 | M. H.                       | 265,136     |
| 7                   | Wasson Coal Co., No. 1.....       | Harrisburg.....              | 5                            | 320                                   | 5.6                                | do..                | do..                         | do..                        | do..                                 | Mac..                       | 259,421     |
| 8                   | O'Gara Coal Co. No. 4.....        | do.....                      | 5                            | 213                                   | 7.0                                | do..                | do..                         | do..                        | do..                                 | do..                        | 244,900     |
| 9                   | O'Gara Coal Co., No. 14.....      | do.....                      | 5                            | 146                                   | 6.4                                | do..                | do..                         | do..                        | do..                                 | do..                        | 238,076     |
| 10                  | Saline Co. Coal Co., No. 3.....   | do.....                      | 5                            | 267                                   | 7.0                                | do..                | do..                         | do..                        | do..                                 | do..                        | 235,326     |
| 11                  | Eldorado C. M. Co., No. 1.....    | Eldorado.....                | 5                            | 450                                   | 5.0                                | do..                | do..                         | do..                        | Mule.                                | M. H.                       | 231,966     |
| 12                  | O'Gara Coal Co., No. 15.....      | Harrisburg.....              | 5                            | 58                                    | 5.1                                | do..                | do..                         | do..                        | Motor                                | do..                        | 193,151     |
| 13                  | O'Gara Coal Co., No. 11.....      | do.....                      | 5                            | 392                                   | 4.8                                | do..                | do..                         | do..                        | do..                                 | Mac..                       | 134,619     |
| 14                  | Saline Co. Coal Co., No. 1.....   | Ledford.....                 | 5                            | 150                                   | 6.6                                | do..                | do..                         | do..                        | Mule.                                | do..                        | 105,667     |
| 15                  | O'Gara Coal Co., No. 7.....       | Harrisburg.....              | 5                            | 76                                    | 6.6                                | do..                | do..                         | do..                        | Motor                                | M. H.                       | 91,008      |
| 16                  | O'Gara Coal Co., No. 8.....       | do.....                      | 5                            | 393                                   | 4.8                                | do..                | do..                         | do..                        | do..                                 | Mac..                       | 68,280      |
| 17                  | O'Gara Coal Co., No. 12.....      | do.....                      | 5                            | 415                                   | 5.0                                | do..                | do..                         | do..                        | do..                                 | do..                        | 31,504      |
| 18                  | St. Louis C. & C. Co., No. 1..... | Galatia.....                 | 5                            | 340                                   | 5.8                                | do..                | do..                         | do..                        | Mule.                                | do..                        | 20,000      |
| 19                  | W. R. Henshaw.....                | Carrier Mills.....           | 5                            | 50                                    | 5.6                                | do..                | do..                         | do..                        | do..                                 | Hd..                        | 5,000       |
| 20                  | T. S. Thompson.....               | Mitchellsville.....          | 5                            | 150                                   | 3.6                                | do..                | do..                         | do..                        | do..                                 | do..                        | 3,000       |
| 21                  | Job. Ingram.....                  | Harrisburg.....              | 5                            | 100                                   | 4.8                                | do..                | do..                         | do..                        | do..                                 | do..                        | 845         |
| 22                  | Moore & McDonald.....             | Carrier Mills.....           | 5                            | 33                                    | 3.8                                | do..                | do..                         | do..                        | do..                                 | do..                        | 700         |
| 23                  | S. J. Moore.....                  | Equality.....                | 5                            | 150                                   | 4.6                                | do..                | do..                         | do..                        | Hd..                                 | do..                        | 600         |
| 24                  | Hazel and Steele.....             | do.....                      | 5                            | 125                                   | 4.0                                | do..                | do..                         | do..                        | do..                                 | do..                        | 600         |
| 25                  | John Cogdill.....                 | Stonefort.....               | 5                            | 20                                    | 3.6                                | do..                | do..                         | do..                        | do..                                 | do..                        | 500         |
| 26                  | L. G. Dunn.....                   | do.....                      | 5                            | 125                                   | 3.0                                | do..                | do..                         | do..                        | do..                                 | do..                        | 250         |
| 27                  | Southern & Lynch.....             | Ledford.....                 | 5                            | 25                                    | 4.6                                | do..                | do..                         | do..                        | do..                                 | do..                        | 150         |
| 28                  | Yates and Reynold.....            | Equality.....                | 5                            | 150                                   | 4.0                                | do..                | do..                         | do..                        | do..                                 | do..                        | 100         |
| 29                  | Ollison & Edwards.....            | do.....                      | 5                            | 50                                    | 4.0                                | do..                | do..                         | do..                        | do..                                 | do..                        | 50          |
| 30                  | J. L. Dunn.....                   | Stonefort.....               | 5                            | 90                                    | 3.0                                | do..                | do..                         | do..                        | do..                                 | do..                        | 24          |
| Total—30 mines..... |                                   | .....                        | .....                        | .....                                 | .....                              | .....               | .....                        | .....                       | .....                                | .....                       | 4,088,575   |

## SANGAMON COUNTY.

|    |                                   |                  |   |     |      |      |      |       |       |       |         |
|----|-----------------------------------|------------------|---|-----|------|------|------|-------|-------|-------|---------|
| 1  | C., W. & V. Coal Co., No. 1.....  | Thayer.....      | 6 | 292 | 7.11 | Sh.. | St.. | P. R. | Motor | Mac.. | 486,140 |
| 2  | Jones & Adams C. Co.....          | Springfield..... | 5 | 230 | 6.0  | do.. | do.. | do..  | do..  | Hd..  | 472,380 |
| 3  | Springfield C. M. Co., No. 2..... | Riverton.....    | 5 | 238 | 5.10 | do.. | do.. | do..  | do..  | do..  | 388,937 |
| 4  | Ill. Midland C. Co., No. 5.....   | Pawnee.....      | 6 | 323 | 6.0  | do.. | do.. | do..  | do..  | do..  | 382,588 |
| 5  | Madison Coal Corp. No., 6.....    | Divernon.....    | 6 | 335 | 8.0  | do.. | do.. | do..  | do..  | Mac.. | 354,650 |
| 6  | Black Diamond Coal Co.....        | Auburn.....      | 6 | 302 | 8.0  | do.. | do.. | do..  | do..  | Hd..  | 311,600 |
| 7  | Woodside Coal Co.....             | Springfield..... | 5 | 245 | 5.10 | do.. | do.. | do..  | do..  | do..  | 269,354 |
| 8  | Ill. Midland Coal Co., No. 6..... | Sherman.....     | 5 | 204 | 6.0  | do.. | do.. | do..  | do..  | do..  | 265,683 |
| 9  | Capital Coal Co., No. 2.....      | Springfield..... | 5 | 240 | 6.0  | do.. | do.. | do..  | do..  | do..  | 222,792 |
| 10 | Chi.-Springfield C. Co.....       | do.....          | 5 | 220 | 6.0  | do.. | do.. | do..  | Mule. | do..  | 199,478 |
| 11 | Sangamon Coal Co.....             | do.....          | 5 | 265 | 6.0  | do.. | do.. | do..  | do..  | do..  | 197,301 |
| 12 | Springfield C. M. Co., No. 5..... | do.....          | 5 | 250 | 5.0  | do.. | do.. | do..  | Motor | do..  | 191,634 |
| 13 | Cora Coal Co.....                 | do.....          | 5 | 240 | 5.10 | do.. | do.. | do..  | Mule. | do..  | 179,609 |
| 14 | Auburn & Alton Coal Co.....       | Auburn.....      | 6 | 270 | 7.0  | do.. | do.. | do..  | do..  | do..  | 127,924 |
| 15 | T. J. O'Gara, Jeff.....           | Springfield..... | 5 | 250 | 5.9  | do.. | do.. | do..  | do..  | do..  | 121,344 |
| 16 | West End Coal Co.....             | do.....          | 5 | 152 | 5.10 | do.. | do.. | do..  | Motor | do..  | 119,261 |
| 17 | Williamsville Coal Co.....        | Selbytown.....   | 5 | 270 | 5.8  | do.. | do.. | do..  | do..  | do..  | 118,941 |
| 18 | Cantrall Coop. Coal Co.....       | Cantrall.....    | 5 | 212 | 6.4  | do.. | do.. | do..  | do..  | do..  | 117,291 |
| 19 | Springfield Coop. C. Co., N. W.   | Springfield..... | 5 | 250 | 5.10 | do.. | do.. | do..  | do..  | do..  | 115,300 |
| 20 | Lefton Coal Co.....               | Auburn.....      | 6 | 270 | 7.0  | do.. | do.. | do..  | Mule. | do..  | 112,648 |
| 21 | Wabash Coal Co., No. 1.....       | Dawson.....      | 5 | 250 | 5.4  | do.. | do.. | do..  | do..  | do..  | 105,191 |
| 22 | Citizens C. M. Co., A.....        | Springfield..... | 5 | 208 | 5.9  | do.. | do.. | do..  | do..  | do..  | 93,298  |
| 23 | Tuxhorn Coal Co.....              | do.....          | 5 | 250 | 5.10 | do.. | do.. | do..  | do..  | do..  | 88,066  |

Table 71—Continued.

SANGAMON COUNTY—*Concluded.*[illegible]

## SCHUYLER COUNTY.

[illegible]

SCOTT COUNTY.

[illegible]

SHELBY COUNTY.

[illegible]









WILL COUNTY.

Table 71—Concluded.

## WILLIAMSON COUNTY.

| Number.             | Name of operator.                | Post-office address of mine. | Physical character of mines. |                                       |                                    |                     |                              |                             |                                      |                             | Total tons. |
|---------------------|----------------------------------|------------------------------|------------------------------|---------------------------------------|------------------------------------|---------------------|------------------------------|-----------------------------|--------------------------------------|-----------------------------|-------------|
|                     |                                  |                              | Geological number of seam.   | Depth of coal below the surface—feet. | Thickness of seam—feet and inches. | Shaft—slope, drift. | Hoisting—steam, horse, hand. | Long wall, pillar and room. | Haulage—hand, mule, cable, electric. | Mining—hand, machine, both. |             |
| 1                   | Big Muddy C. & I. Co., No. 8.    | Clifford.....                | 6                            | 180                                   | 9.0                                | Sh.                 | St.                          | P. R.                       | Motor                                | Mac.                        | 510, 695    |
| 2                   | Johnston City C. Co., No. 1...   | Johnston City..              | 6                            | 217                                   | 9.0                                | do.                 | do.                          | do.                         | do.                                  | M. H.                       | 540, 236    |
| 3                   | Madison Coal Corp., No. 9....    | Dewmaine.....                | 6                            | 118                                   | 7.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 423, 556    |
| 4                   | Chi. and Carterville C. Co., A.  | Herrin.....                  | 6                            | 180                                   | 9.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 407, 420    |
| 5                   | Sunnyside Coal Co., No. 1.....   | do.                          | 6                            | 150                                   | 7.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 342, 353    |
| 6                   | Western C. M. Co., Bush.....     | Bush.....                    | 6                            | 130                                   | 8.0                                | do.                 | do.                          | do.                         | do.                                  | Hd.                         | 332, 693    |
| 7                   | Big Muddy C. & I. Co., No. 7.    | Herrin.....                  | 6                            | 140                                   | 9.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 313, 509    |
| 8                   | W. P. Rend C. & C. Co., No. 2    | do.                          | 6                            | 215                                   | 9.0                                | do.                 | do.                          | do.                         | do.                                  | Mac.                        | 290, 938    |
| 9                   | Madison Coal Corp., No. 8.....   | Dewmaine.....                | 6                            | 99                                    | 7.6                                | do.                 | do.                          | do.                         | do.                                  | Hd.                         | 288, 968    |
| 10                  | Peabody Coal Co., No. 2.....     | Marion.....                  | 6                            | 84                                    | 9.0                                | do.                 | do.                          | do.                         | do.                                  | M. H.                       | 228, 365    |
| 11                  | Taylor Coal Co., No. 2.....      | Herrin.....                  | 6                            | 138                                   | 9.0                                | do.                 | do.                          | do.                         | do.                                  | Hd.                         | 227, 819    |
| 12                  | Peabody Coal Co., No. 3.....     | Marion.....                  | 6                            | 106                                   | 9.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 222, 701    |
| 13                  | Carterville Coal Co., Burr. C.   | Carterville.....             | 6                            | 100                                   | 9.0                                | do.                 | do.                          | do.                         | Mule.                                | do.                         | 218, 418    |
| 14                  | Chi. Big Muddy Coal Co.....      | Marion.....                  | 6                            | 100                                   | 8.0                                | do.                 | do.                          | do.                         | Motor                                | do.                         | 204, 392    |
| 15                  | Hafer Washed C. Co., No. 3....   | Carterville.....             | 6                            | 120                                   | 9.0                                | do.                 | do.                          | do.                         | Mule.                                | do.                         | 200, 137    |
| 16                  | Chi. and Carter. C. Co., O. R.   | Herrin.....                  | 6                            | 246                                   | 9.0                                | do.                 | do.                          | do.                         | Motor                                | do.                         | 197, 534    |
| 17                  | West Va. Coal Co., No. 1.....    | Marion.....                  | 6                            | 116                                   | 7.6                                | do.                 | do.                          | do.                         | do.                                  | M. H.                       | 192, 357    |
| 18                  | So. Ill. C. & C. Co., O. R.....  | Herrin.....                  | 6                            | 147                                   | 11.9                               | do.                 | do.                          | do.                         | do.                                  | do.                         | 188, 873    |
| 19                  | Big M. Fuel Co., N. Va.....      | Johnston City..              | 6                            | 120                                   | 7.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 179, 381    |
| 20                  | Carterville Dist. C. Co., No. 1. | Marion.....                  | 6                            | 100                                   | 8.0                                | do.                 | do.                          | do.                         | do.                                  | Mac.                        | 174, 390    |
| 21                  | Pond Creek Coal Co.....          | Herrin.....                  | 6                            | 240                                   | 9.0                                | do.                 | do.                          | do.                         | Mule.                                | M. H.                       | 158, 089    |
| 22                  | Standard Col Co., McC.....       | Johnston City..              | 6                            | 276                                   | 8.0                                | do.                 | do.                          | do.                         | do.                                  | Mac.                        | 149, 666    |
| 23                  | Carterville & Her. C. Co. No. 1  | Herrin.....                  | 6                            | 150                                   | 9.0                                | do.                 | do.                          | do.                         | do.                                  | Hd.                         | 125, 531    |
| 24                  | Williamson Co. Coal Co.....      | Johnston City..              | 6                            | 172                                   | 9.2                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 125, 523    |
| 25                  | St. L.-Carter. C. Co., Dale..... | Herrin.....                  | 6                            | 91                                    | 9.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 114, 866    |
| 26                  | Carter. & B. M. C. Co., John.    | Cambria.....                 | 6                            | ...                                   | 9.0                                | do.                 | do.                          | do.                         | Motor                                | do.                         | 110, 015    |
| 27                  | Taylor Coal Co., No. 1.....      | Herrin.....                  | 6                            | 55                                    | 9.0                                | do.                 | do.                          | do.                         | Mule.                                | do.                         | 108, 594    |
| 28                  | Watson Coal Co., No. 1.....      | do.                          | 6                            | 60                                    | 9.0                                | do.                 | do.                          | do.                         | Motor                                | do.                         | 106, 605    |
| 29                  | So. Ill. C. & C. Co., Hemlock    | do.                          | 6                            | 155                                   | 11.0                               | do.                 | do.                          | do.                         | Mule.                                | do.                         | 72, 282     |
| 30                  | Donally-Koeneck C. Co.....       | Carterville.....             | 6                            | 130                                   | 9.6                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 71, 734     |
| 31                  | Scranton & B. M. C. M. Co....    | Marion.....                  | 6                            | 160                                   | 7.0                                | do.                 | do.                          | do.                         | do.                                  | M. H.                       | 70, 202     |
| 32                  | Robert Dick Coal Co.....         | Cambria.....                 | 6                            | 125                                   | 9.0                                | do.                 | do.                          | do.                         | do.                                  | Hd.                         | 59, 291     |
| 33                  | Pittsburg-B. M. C. Co., No. 2.   | Pittsburg.....               | 6                            | 220                                   | 7.0                                | do.                 | do.                          | do.                         | Motor                                | M. H.                       | 38, 363     |
| 34                  | Watson Coal Co., No. 2.....      | Herrin.....                  | 6                            | 70                                    | 9.0                                | do.                 | do.                          | do.                         | Mule.                                | Hd.                         | 3, 095      |
| 35                  | Reese-Taylor Coal Co.....        | Marion.....                  | 6                            | 20                                    | 7.0                                | St.                 | Ho.                          | do.                         | do.                                  | do.                         | 8, 017      |
| 36                  | J. S. McNeill.....               | Carterville.....             | 6                            | 20                                    | 9.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 8, 000      |
| 37                  | Henry T. Simpson.....            | Marion.....                  | 6                            | 30                                    | 8.0                                | Sl.                 | St.                          | do.                         | do.                                  | do.                         | 5, 000      |
| 38                  | John A. Young.....               | Carterville.....             | 5                            | 50                                    | 4.0                                | Sh.                 | Ho.                          | do.                         | Hd.                                  | do.                         | 3, 530      |
| 39                  | F. E. Rentfro.....               | Crab Orchard..               | 5                            | ...                                   | 4.6                                | Dr.                 | do.                          | do.                         | Mule.                                | do.                         | 1, 200      |
| 40                  | Carlisle Coal Co.....            | Carterville.....             | 6                            | 22                                    | 9.0                                | Sl.                 | St.                          | do.                         | do.                                  | do.                         | 575         |
| 41                  | Chas. W. Swan.....               | Crab Orchard..               | 5                            | 10                                    | 6.0                                | do.                 | do.                          | do.                         | do.                                  | do.                         | 490         |
| 42                  | Motsinger & Carter.....          | do.                          | 6                            | 6                                     | 4.6                                | do.                 | do.                          | do.                         | Hd.                                  | do.                         | 450         |
| 43                  | L. Bradley.....                  | do.                          | 5                            | ...                                   | 5.6                                | St.                 | do.                          | do.                         | Mule.                                | do.                         | 300         |
| 44                  | W. S. Tarpley.....               | do.                          | 5                            | ...                                   | 4.6                                | Dr.                 | Ho.                          | do.                         | do.                                  | do.                         | 180         |
| 45                  | M. Shaw.....                     | do.                          | 5                            | 30                                    | 4.4                                | Sl.                 | do.                          | do.                         | do.                                  | do.                         | 150         |
| 46                  | Black Diamond C. Co.....         | Marion.....                  | 5                            | 70                                    | 4.0                                | Sh.                 | St.                          | do.                         | Hd.                                  | do.                         | 41          |
| Total—46 mines..... |                                  |                              |                              |                                       |                                    |                     |                              |                             |                                      |                             | 7, 086, 554 |

## WOODFORD COUNTY.

|                    |                             |              |   |     |     |     |     |       |       |     |          |
|--------------------|-----------------------------|--------------|---|-----|-----|-----|-----|-------|-------|-----|----------|
| 1                  | Roanoke Coal Co.....        | Roanoke..... | 2 | 480 | 2.6 | Sh. | St. | L. W. | Mule. | Hd. | 122, 552 |
| 2                  | Minonk Coal Co., No. 2..... | Minonk.....  | 2 | 550 | 3.0 | do. | do. | do.   | do.   | do. | 61, 344  |
| Total—2 mines..... |                             |              |   |     |     |     |     |       |       |     | 183, 896 |

Table 12 is a summary of the physical characteristics of the mines as shown in Table 11.

TABLE 12—*Summary of the physical character of the coal mines of the State, geological number of seams, manner of working, kind of opening and tons produced.*

| Geological number of seam. | Number of counties. | Number of mines. | Manner of working. |                  |        | Character of opening. |        |        | Tons.        |
|----------------------------|---------------------|------------------|--------------------|------------------|--------|-----------------------|--------|--------|--------------|
|                            |                     |                  | Long wall.         | Pillar and room. | Strip. | Shaft.                | Slope. | Drift. |              |
| 1.....                     | 8                   | 54               | 1                  | 53               | .....  | 32                    | 11     | 11     | 525, 835     |
| 1 and 2.....               | 1                   | 4                | .....              | 4                | .....  | 4                     | .....  | .....  | 418, 889     |
| 2.....                     | 13                  | 140              | 32                 | 108              | .....  | 67                    | 8      | 65     | 4, 635, 146  |
| 3.....                     | 3                   | 11               | 4                  | 7                | .....  | 4                     | .....  | 7      | 677, 071     |
| 4.....                     | 1                   | 1                | .....              | 1                | .....  | .....                 | .....  | 1      | 2, 716       |
| 5.....                     | 13                  | 268              | 1                  | 266              | 1      | 141                   | 38     | 89     | 12, 879, 040 |
| 6.....                     | 29                  | 334              | 5                  | 328              | 1      | 292                   | 26     | 16     | 37, 331, 439 |
| 7.....                     | 6                   | 61               | 1                  | 60               | .....  | 26                    | 10     | 25     | 1, 030, 395  |
| 16.....                    | 1                   | 6                | .....              | 6                | .....  | 6                     | .....  | .....  | 13, 709      |
| Total.....                 | .....               | 879              | 44                 | 833              | 2      | 572                   | 93     | 214    | 57, 514, 240 |

## FATAL ACCIDENTS.

Table 73 shows the number of fatal accidents by districts for the year, number of employees, total output of coal, the number employed to each death, the ratio of fatalities to 1,000 men employed and the number of tons mined to each death.

TABLE 73—*Total casualties by districts for the year ended June 30, 1912.*

| Districts.    | Killed.        |               |               | Employees.    |               |        | Total tons of coal mined. | Number of employ-ees to each death. | Ratio per 1,000 em-ployed. | Number of tons of coal to each death. |
|---------------|----------------|---------------|---------------|---------------|---------------|--------|---------------------------|-------------------------------------|----------------------------|---------------------------------------|
|               | Total num-ber. | Under ground. | Above ground. | Under ground. | Above ground. | Total. |                           |                                     |                            |                                       |
| First.....    | 8              | 7             | 1             | 5,370         | 566           | 5,936  | 2,612,556                 | 742                                 | 1.3                        | 326,569                               |
| Second.....   | 6              | 5             | 1             | 4,670         | 418           | 5,088  | 2,250,393                 | 848                                 | 1.2                        | 375,065                               |
| Third.....    | 7              | 7             | .....         | 4,772         | 492           | 5,264  | 3,015,086                 | 752                                 | 1.3                        | 430,727                               |
| Fourth.....   | 7              | 6             | 1             | 3,747         | 348           | 4,095  | 2,471,286                 | 585                                 | 1.7                        | 353,041                               |
| Fifth.....    | 21             | 21            | .....         | 6,452         | 566           | 7,018  | 5,174,966                 | 334                                 | 3.0                        | 246,427                               |
| Sixth.....    | 6              | 4             | 2             | 7,598         | 661           | 8,259  | 6,014,872                 | 1,376                               | 0.7                        | 1,002,479                             |
| Seventh.....  | 23             | 23            | .....         | 6,788         | 589           | 7,377  | 7,201,251                 | 321                                 | 3.1                        | 313,098                               |
| Eighth.....   | 20             | 20            | .....         | 6,735         | 680           | 7,415  | 5,854,645                 | 371                                 | 2.7                        | 292,732                               |
| Ninth.....    | 13             | 13            | .....         | 5,329         | 527           | 5,856  | 4,516,548                 | 450                                 | 2.2                        | 347,427                               |
| Tenth.....    | 6              | 6             | .....         | 4,712         | 492           | 5,204  | 3,091,428                 | 867                                 | 1.2                        | 515,238                               |
| Eleventh..... | 40             | 38            | 2             | 8,480         | 897           | 9,377  | 8,220,784                 | 234                                 | 4.3                        | 205,515                               |
| Twelfth.....  | 23             | 23            | .....         | 7,709         | 813           | 8,522  | 7,090,425                 | 371                                 | 2.7                        | 308,279                               |
| The State.    | 180            | 173           | 7             | 72,362        | 7,049         | 79,411 | 57,514,240                | 441                                 | 2.3                        | 319,524                               |

Table 74 is the record of fatalities for thirty years. This year the ratio of deaths to 1,000 employees is higher than last year, but is below the average for the series, while the number of tons mined to each life lost remains the same.

TABLE 74—*Fatal accidents for thirty years.*

| Year.                 | Number killed. | Total number of employees. | Total tons of coal mined. | Number of employees to each life lost. | Ratio per 1,000. | Number of tons of coal produced to each life lost. |
|-----------------------|----------------|----------------------------|---------------------------|--|------------------|--|
| 1883.....             | 134            | 23,939                     | 12,123,456                | 179.6                                  | 5.6              | 90,474   |
| 1884.....             | 46             | 25,575                     | 12,208,075                | 566                                    | 1.8              | 265,393  |
| 1885.....             | 39             | 25,946                     | 11,834,459                | 652.4                                  | 1.5              | 303,448  |
| 1886.....             | 52             | 25,846                     | 11,175,241                | 497                                    | 2.0              | 214,900  |
| 1887.....             | 41             | 26,804                     | 12,423,066                | 654                                    | 1.5              | 303,002  |
| 1888.....             | 55             | 29,410                     | 14,328,181                | 534.7                                  | 1.9              | 260,512  |
| 1889.....             | 42             | 30,076                     | 14,017,298                | 716.1                                  | 1.4              | 333,745  |
| 1890.....             | 53             | 28,574                     | 15,274,727                | 539.1                                  | 1.9              | 288,203  |
| 1891.....             | 60             | 32,951                     | 15,660,698                | 549                                    | 1.8              | 261,012  |
| 1892.....             | 57             | 33,632                     | 17,862,276                | 590                                    | 1.7              | 313,372  |
| 1893.....             | 69             | 35,390                     | 19,949,564                | 513                                    | 1.9              | 289,124  |
| 1894.....             | 72             | 38,477                     | 17,113,576                | 534                                    | 2.2              | 237,688  |
| 1895.....             | 75             | 38,630                     | 17,735,864                | 515                                    | 2.3              | 236,478  |
| 1896.....             | 77             | 37,057                     | 19,786,626                | 481                                    | 2.3              | 256,969  |
| 1897.....             | 69             | 33,788                     | 20,072,758                | 489.7                                  | 2.0              | 290,910  |
| 1898.....             | 75             | 35,026                     | 18,599,299                | 467                                    | 2.1              | 247,991  |
| 1899.....             | 84             | 36,991                     | 23,434,445                | 440                                    | 2.3              | 278,982  |
| 1900.....             | 94             | 39,384                     | 25,153,929                | 419                                    | 2.4              | 267,595  |
| 1901.....             | 99             | 44,143                     | 26,635,319                | 445.9                                  | 2.2              | 269,044  |
| 1902.....             | 99             | 46,005                     | 30,021,300                | 464.7                                  | 2.2              | 303,245  |
| 1903.....             | 156            | 49,814                     | 34,955,400                | 319.3                                  | 3.1              | 224,073  |
| 1904.....             | 157            | 54,774                     | 37,077,897                | 348.9                                  | 2.9              | 236,165  |
| 1905.....             | 199            | 59,230                     | 37,183,374                | 298                                    | 3.4              | 186,851  |
| 1906.....             | 155            | 62,283                     | 38,317,581                | 402                                    | 2.5              | 247,210  |
| 1907.....             | 165            | 66,714                     | 47,798,621                | 404                                    | 2.5              | 289,689  |
| 1908.....             | 183            | 70,841                     | 49,272,452                | 387                                    | 2.6              | 269,248  |
| 1909.....             | 213            | 72,733                     | 49,163,710                | 341.5                                  | 2.9              | 230,816  |
| 1910.....             | 406            | 74,334                     | 48,717,853                | 183.8                                  | 5.4              | 119,997  |
| 1911.....             | 157            | 77,410                     | 50,165,099                | 493                                    | 2.0              | 319,523  |
| 1912.....             | 180            | 79,411                     | 57,514,240                | 441                                    | 2.3              | 319,524  |
| Average—30 years..... | 112            | 44,516                     | 26,852,546                | 397.1                                  | 2.5              | 239,541  |



Table 75 shows the average number of men killed, employees, production, and ratio for the nine years, 1883 to 1891, and for the succeeding twenty-one years.

TABLE 75—*Fatal accidents, averages and proportions for nine years, 1883-1891, and for the succeeding twenty-one years, 1892-1912.*

| Number of years. | Average. |            |             | Proportion of—                     |                              | Ratio<br>per<br>1,000. |
|------------------|----------|------------|-------------|------------------------------------|------------------------------|------------------------|
|                  | Killed.  | Employees. | Tons mined. | Employees<br>to each<br>life lost. | Tons<br>to each<br>life lost |                        |
| 9 years.....     | 58       | 27,623     | 13,227,245  | 476.3                              | 208,899                      | 2.1                    |
| 10 years.....    | 58       | 28,224     | 13,610,748  | 487.5                              | 235,073                      | 2.1                    |
| 11 years.....    | 59       | 28,876     | 14,187,004  | 490.2                              | 240,829                      | 2.0                    |
| 12 years.....    | 60       | 29,189     | 14,430,885  | 486.5                              | 240,515                      | 2.1                    |
| 13 years.....    | 61       | 29,402     | 14,685,114  | 481                                | 240,134                      | 2.1                    |
| 14 years.....    | 62       | 29,663     | 15,049,508  | 464.8                              | 241,621                      | 2.1                    |
| 15 years.....    | 63       | 29,938     | 15,384,391  | 479                                | 245,235                      | 2.1                    |
| 16 years.....    | 64       | 30,256     | 15,585,323  | 476.5                              | 245,438                      | 2.1                    |
| 17 years.....    | 65       | 30,652     | 16,047,036  | 473.7                              | 248,000                      | 2.1                    |
| 18 years.....    | 66       | 31,137     | 16,552,974  | 469.4                              | 249,568                      | 2.1                    |
| 19 years.....    | 68       | 31,822     | 17,083,624  | 467.6                              | 251,035                      | 2.1                    |
| 20 years.....    | 70       | 32,531     | 17,730,508  | 467.4                              | 254,748                      | 2.1                    |
| 21 years.....    | 74       | 33,354     | 18,550,741  | 452.5                              | 251,657                      | 2.2                    |
| 22 years.....    | 78       | 34,328     | 19,392,884  | 442.9                              | 250,231                      | 2.3                    |
| 23 years.....    | 83       | 35,410     | 20,166,384  | 427.8                              | 243,607                      | 2.3                    |
| 24 years.....    | 86       | 36,530     | 20,922,767  | 425                                | 243,288                      | 2.4                    |
| 25 years.....    | 89       | 37,737     | 21,997,733  | 424                                | 247,277                      | 2.3                    |
| 26 years.....    | 93       | 39,665     | 23,077,519  | 428                                | 249,279                      | 2.3                    |
| 27 years.....    | 97       | 40,890     | 24,043,674  | 421                                | 247,778                      | 2.4                    |
| 28 years.....    | 108      | 42,095     | 24,924,894  | 389.4                              | 230,557                      | 2.6                    |
| 29 years.....    | 110      | 43,313     | 25,795,350  | 394.6                              | 235,019                      | 2.5                    |
| 30 years.....    | 112      | 44,516     | 26,852,546  | 397.1                              | 239,541                      | 2.5                    |

Table 76 is a list of the causes of the 180 fatalities which occurred during the year.

TABLE 76—*Fatal accidents by causes for 1912, by districts, with percentages.*

| Number. | Causes.               | Total. | Districts. |       |       |       |       |       |       |       |       |       |       |       | Per-<br>cent-<br>ages. |
|---------|-----------------------|--------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|
|         |                       |        | 1st        | 2d    | 3d    | 4th   | 5th   | 6th   | 7th   | 8th   | 9th   | 10th  | 11th  | 12th  |                        |
| 1       | Asphyxiation.....     | 9      | .....      | ..... | ..... | ..... | ..... | 1     | ..... | ..... | ..... | ..... | 8     | ..... | 5.00                   |
| 2       | Blast explosion ..... | 2      | 1          | ..... | ..... | ..... | ..... | ..... | 1     | ..... | ..... | ..... | ..... | ..... | 1.11                   |
| 3       | Bursting steam pipe . | 1      | 1          | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .56                    |
| 4       | Cage.....             | 3      | .....      | ..... | ..... | ..... | ..... | ..... | 1     | 1     | ..... | 1     | ..... | ..... | 1.67                   |
| 5       | Dynamite explosion .  | 1      | 1          | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .56                    |
| 6       | Electrocuted.....     | 3      | .....      | ..... | ..... | ..... | ..... | ..... | 1     | ..... | ..... | ..... | 2     | ..... | 1.67                   |
| 7       | Falling clod.....     | 3      | .....      | ..... | ..... | ..... | ..... | ..... | ..... | 2     | 1     | ..... | ..... | ..... | 1.67                   |
| 8       | Falling coal.....     | 25     | .....      | 1     | 1     | ..... | 1     | ..... | 3     | 5     | 2     | ..... | 8     | 4     | 13.88                  |
| 9       | Falling prop.....     | 1      | .....      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1     | ..... | ..... | .56                    |
| 10      | Falling rock.....     | 29     | 4          | 1     | 1     | 1     | 15    | ..... | 3     | 1     | ..... | ..... | 3     | ..... | 16.10                  |
| 11      | Falling slate.....    | 41     | .....      | 1     | 3     | ..... | 1     | 1     | 2     | 6     | 6     | 1     | 10    | 10    | 22.77                  |
| 12      | Falling tower.....    | 1      | .....      | ..... | ..... | ..... | ..... | 1     | ..... | ..... | ..... | ..... | ..... | ..... | .56                    |
| 13      | Fell down shaft.....  | 6      | .....      | ..... | 1     | 1     | 2     | ..... | ..... | ..... | 2     | ..... | ..... | ..... | 3.33                   |
| 14      | Flying coal.....      | 3      | .....      | ..... | 1     | ..... | ..... | ..... | 1     | ..... | ..... | ..... | ..... | 1     | 1.67                   |
| 15      | Gas explosion.....    | 3      | .....      | ..... | ..... | ..... | ..... | ..... | 2     | ..... | ..... | ..... | ..... | 1     | 1.67                   |
| 16      | Motor.....            | 3      | .....      | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1     | 2     | 1.67                   |
| 17      | Mule, kicked by.....  | 1      | .....      | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .56                    |
| 18      | Pit cars.....         | 34     | 1          | 1     | ..... | 4     | 1     | 1     | 8     | 4     | 2     | 2     | 7     | 3     | 18.88                  |
| 19      | Powder explosion..... | 3      | .....      | ..... | ..... | ..... | 1     | 1     | ..... | 1     | ..... | ..... | ..... | ..... | 1.67                   |
| 20      | Premature blast.....  | 4      | .....      | ..... | ..... | ..... | ..... | ..... | 1     | ..... | ..... | 1     | ..... | 2     | 2.22                   |
| 21      | Railroad cars.....    | 2      | .....      | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 1     | ..... | 1.11                   |
| 22      | Struck by hook.....   | 1      | .....      | ..... | ..... | ..... | ..... | 1     | ..... | ..... | ..... | ..... | ..... | ..... | .56                    |
| 23      | Struck by lever.....  | 1      | .....      | ..... | ..... | 1     | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .56                    |
|         | Total.....            | 180    | 8          | 6     | 7     | 7     | 21    | 6     | 23    | 20    | 13    | 6     | 40    | 23    | 100.00                 |

Table 77. In this table the record of fatal accidents is shown for twenty-five years by seven leading causes. To these causes are attributable 2,829 deaths, of which more than one-half is due to falling coal, rock, etc.

TABLE 77—*Fatal accidents for twenty-five years, by leading causes.*

| Years.                    | T-tal. | Leading causes.             |        |                                 |                        |                                |           |               |        |              | Other causes. |              |
|---------------------------|--------|-----------------------------|--------|---------------------------------|------------------------|--------------------------------|-----------|---------------|--------|--------------|---------------|--------------|
|                           |        | Blasts and ex-<br>plosions. | Cages. | Falling coal,<br>rock and roof. | Falling down<br>shaft. | Fire, black and<br>white damp. | Pit cars. | Railway cars. | Total. | Percentages. | Total.        | Percentages. |
| 1888.....                 | 55     | 9                           | 2      | 33                              | 4                      | .....                          | 6         | 1             | 55     | 100.0        | .....         | .....        |
| 1889.....                 | 42     | 3                           | 4      | 26                              | 2                      | .....                          | 5         | .....         | 40     | 95.2         | 2             | 4.8          |
| 1890.....                 | 53     | 4                           | 4      | 36                              | .....                  | 5                              | 3         | 1             | 53     | 100.0        | .....         | .....        |
| 1891.....                 | 60     | 11                          | 4      | 33                              | 1                      | 4                              | 2         | 2             | 57     | 95.0         | 3             | 5.0          |
| 1892.....                 | 57     | 4                           | 4      | 28                              | 8                      | 3                              | 6         | 1             | 54     | 94.7         | 3             | 5.3          |
| 1893.....                 | 69     | 6                           | 4      | 48                              | 3                      | 2                              | 2         | 1             | 66     | 95.7         | 3             | 4.3          |
| 1894.....                 | 72     | 8                           | 8      | 43                              | 5                      | .....                          | 6         | 2             | 72     | 100.0        | .....         | .....        |
| 1895.....                 | 75     | 12                          | 4      | 38                              | 4                      | 5                              | 5         | 1             | 69     | 92.0         | 6             | 8.0          |
| 1896.....                 | 77     | 9                           | 5      | 41                              | 6                      | 2                              | 7         | 1             | 71     | 92.2         | 6             | 7.8          |
| 1897.....                 | 69     | 11                          | .....  | 46                              | 5                      | 2                              | 1         | 1             | 66     | 95.7         | 3             | 4.3          |
| 1898.....                 | 75     | 11                          | 2      | 43                              | 4                      | 7                              | 2         | 1             | 70     | 93.3         | 5             | 6.7          |
| 1899.....                 | 84     | 4                           | 5      | 51                              | 4                      | 4                              | 6         | 1             | 75     | 89.3         | 9             | 10.7         |
| 1900.....                 | 94     | 17                          | 4      | 51                              | 1                      | 1                              | 11        | 2             | 87     | 92.6         | 7             | 7.4          |
| 1901.....                 | 99     | 3                           | 1      | 57                              | 1                      | 1                              | 11        | .....         | 74     | 74.7         | 25            | 23.3         |
| 1902.....                 | 99     | 13                          | 2      | 55                              | 7                      | .....                          | 15        | 2             | 94     | 95.0         | 5             | 5.0          |
| 1903.....                 | 156    | 47                          | 6      | 77                              | 2                      | .....                          | 18        | .....         | 150    | 96.2         | 6             | 3.8          |
| 1904.....                 | 157    | 44                          | 4      | 65                              | 8                      | .....                          | 21        | 2             | 144    | 91.7         | 13            | 8.3          |
| 1905.....                 | 199    | 82                          | 6      | 80                              | 4                      | 3                              | 10        | 1             | 186    | 93.5         | 13            | 6.5          |
| 1906.....                 | 155    | 24                          | 5      | 84                              | 9                      | .....                          | 18        | 4             | 144    | 92.9         | 11            | 7.1          |
| 1907.....                 | 165    | 24                          | 8      | 84                              | 6                      | 4                              | 28        | 4             | 158    | 95.8         | 7             | 4.2          |
| 1908.....                 | 183    | 36                          | 1      | 91                              | 3                      | .....                          | 35        | 8             | 174    | 95.1         | 9             | 4.9          |
| 1909.....                 | 213    | 69                          | 4      | 84                              | 5                      | 4                              | 24        | 8             | 198    | 93.0         | 15            | 7.0          |
| 1910.....                 | 406    | 33                          | 6      | 65                              | 3                      | 260                            | 21        | 3             | 391    | 96.3         | 15            | 3.7          |
| 1911.....                 | 157    | 10                          | 2      | 80                              | 5                      | .....                          | 28        | 2             | 127    | 80.9         | 30            | 19.1         |
| 1912.....                 | 180    | 2                           | 3      | 98                              | 6                      | 9                              | 34        | 2             | 154    | 85.6         | 26            | 14.4         |
| Total 25 years.....       | 3,051  | 496                         | 98     | 1,437                           | 106                    | 316                            | 325       | 51            | 2,829  | .....        | 222           | .....        |
| Percentages 25 years..... | .....  | 16.3                        | 3.2    | 47.1                            | 3.5                    | 10.3                           | 10.7      | 1.7           | .....  | 92.8         | .....         | 7.2          |

Table 78 shows, by districts, the number of fatal accidents caused by powder and other causes for the year and for the preceding eleven years. The last line at the bottom of the table gives the totals for twelve years.

TABLE 78—*Fatal accidents, caused primarily by explosions of powder, gas explosions, falling coal, rock, etc., pit cars and various causes, by districts, for the year 1912, and for the eleven preceding years.*

| Districts and years. | Causes—use of powder. |                   |                   |                    |              | Total from use of powder. | Other causes.   |                          |           |          | Totals.            |                  |
|----------------------|-----------------------|-------------------|-------------------|--------------------|--------------|---------------------------|-----------------|--------------------------|-----------|----------|--------------------|------------------|
|                      | Blast explosions.     | Blasts premature. | Blown out charge. | Powder explosions. | Flying coal. |                           | Gas explosions. | Falling coal, rock, etc. | Pit cars. | Various. | From other causes. | From all causes. |
| First.....           | 1                     |                   |                   |                    |              | 1                         |                 | 4                        | 1         | 2        | 7                  | 8                |
| Second.....          |                       |                   |                   |                    |              |                           |                 | 3                        | 1         | 2        | 6                  | 6                |
| Third.....           |                       |                   |                   |                    | 1            | 1                         |                 | 5                        |           | 1        | 6                  | 7                |
| Fourth.....          |                       |                   |                   |                    |              |                           |                 | 1                        | 4         | 2        | 7                  | 7                |
| Fifth.....           |                       |                   |                   | 1                  |              | 1                         |                 | 17                       | 1         | 2        | 20                 | 21               |
| Sixth.....           |                       |                   |                   | 1                  |              | 1                         |                 | 1                        | 1         | 3        | 5                  | 6                |
| Seventh.....         | 1                     | 1                 |                   |                    | 1            | 3                         | 2               | 8                        | 8         | 2        | 20                 | 23               |
| Eighth.....          |                       |                   |                   | 1                  |              | 1                         |                 | 14                       | 4         | 1        | 19                 | 20               |
| Ninth.....           |                       |                   |                   |                    |              |                           |                 | 9                        | 2         | 2        | 13                 | 13               |
| Tenth.....           |                       | 1                 |                   |                    |              | 1                         |                 | 1                        | 2         | 2        | 5                  | 6                |
| Eleventh.....        |                       |                   |                   |                    |              |                           |                 | 21                       | 7         | 12       | 40                 | 40               |
| Twelfth.....         |                       | 2                 |                   |                    | 1            | 3                         | 1               | 14                       | 3         | 2        | 20                 | 23               |
| 1912.....            | 2                     | 4                 |                   | 3                  | 3            | 12                        | 3               | 98                       | 34        | 33       | 168                | 180              |
| 1911.....            | 3                     | 4                 | 1                 | 2                  |              | 10                        | 8               | 80                       | 28        | 31       | 147                | 157              |
| 1910.....            | 4                     | 2                 |                   | 7                  | 4            | 17                        | 16              | 65                       | 21        | 287      | 389                | 406              |
| 1909.....            | 16                    | 2                 |                   | 10                 | 1            | 29                        | 40              | 84                       | 24        | 36       | 184                | 213              |
| 1908.....            | 9                     | 4                 | 5                 | 8                  | 3            | 29                        | 7               | 91                       | 35        | 21       | 154                | 183              |
| 1907.....            | 1                     | 1                 | 11                | 10                 | 1            | 24                        | 4               | 84                       | 28        | 25       | 141                | 165              |
| 1906.....            | 4                     | 1                 | 2                 | 5                  | 10           | 22                        | 2               | 84                       | 18        | 29       | 133                | 155              |
| 1905.....            | 8                     | 2                 | 7                 | 8                  | 9            | 34                        | 48              | 80                       | 10        | 27       | 165                | 199              |
| 1904.....            | 3                     | 16                | 2                 | 14                 | 9            | 44                        |                 | 65                       | 21        | 27       | 113                | 157              |
| 1903.....            | 25                    | 11                |                   | 3                  | 2            | 41                        | 8               | 79                       | 18        | 10       | 115                | 156              |
| 1902.....            | 2                     | 9                 |                   | 3                  | 3            | 17                        |                 | 55                       | 15        | 12       | 82                 | 99               |
| 1901.....            | 1                     | 8                 |                   | 3                  | 8            | 20                        | 1               | 57                       | 11        | 10       | 79                 | 99               |
| Twelve years.....    | 78                    | 64                | 28                | 76                 | 53           | 299                       | 137             | 922                      | 263       | 548      | 1,870              | 2,169            |

Table 79 gives the percentages of the numbers as shown in Table 78.

TABLE 79—*Percentages of fatal casualties for twelve years, 1901-1912, by causes.*

| Year.         | Percentages—      |                   |                   |                    |              |  |                 |                          |           |          |                     |                 |                          |           |          |
|---------------|-------------------|-------------------|-------------------|--------------------|--------------|--|-----------------|--------------------------|-----------|----------|---------------------|-----------------|--------------------------|-----------|----------|
|               | Use of powder.    |                   |                   |                    |              | From powder, other named causes, and all causes. | Other causes.   |                          |           |          | All causes.         |                 |                          |           |          |
|               | Blast explosions. | Blast, premature. | Blown out charge. | Powder explosions. | Flying coal. |  | Gas explosions. | Falling coal, rock, etc. | Pit cars. | Various. | Blast, powder, etc. | Gas explosions. | Falling rock, coal, etc. | Pit cars. | Various. |
|               |                   |                   |                   |                    |              |  |                 |                          |           |          |                     |                 |                          |           |          |
| 1901.....     | 5.0               | 40.0              | .....             | 15.0               | 40.0         | 100.00   | 1.3             | 72.1                     | 13.9      | 12.7     | 20.2                | 1.0             | 57.6                     | 11.1      | 10.1     |
| 1902.....     | 11.8              | 52.9              | .....             | 17.6               | 17.7         | 100.00   | .....           | 67.1                     | 18.3      | 14.6     | 17.2                | ....            | 55.6                     | 15.1      | 12.1     |
| 1903.....     | 61.0              | 26.8              | .....             | 7.3                | 4.9          | 100.00   | 7.0             | 68.7                     | 15.6      | 8.7      | 26.3                | 5.1             | 50.7                     | 11.5      | 6.4      |
| 1904.....     | 6.8               | 36.4              | 4.5               | 31.8               | 20.5         | 100.00   | .....           | 57.5                     | 18.6      | 23.9     | 28.0                | ....            | 41.4                     | 13.4      | 17.2     |
| 1905.....     | 23.5              | 5.9               | 20.6              | 23.5               | 26.5         | 100.00   | 29.1            | 48.5                     | 6.0       | 16.4     | 17.1                | 24.1            | 49.2                     | 5.0       | 13.6     |
| 1906.....     | 18.2              | 4.5               | 9.1               | 22.7               | 45.5         | 100.00   | 1.5             | 63.2                     | 13.5      | 21.8     | 14.2                | 1.3             | 54.2                     | 11.6      | 18.7     |
| 1907.....     | 4.2               | 4.2               | 45.8              | 41.6               | 4.2          | 100.00   | 2.8             | 59.6                     | 19.9      | 17.7     | 15.6                | 2.4             | 50.9                     | 17.0      | 15.1     |
| 1908.....     | 31.0              | 13.8              | 17.2              | 27.6               | 10.4         | 100.00   | 4.6             | 59.1                     | 22.7      | 13.6     | 15.9                | 3.8             | 49.7                     | 19.1      | 11.5     |
| 1909.....     | 55.2              | 6.9               | .....             | 34.5               | 3.4          | 100.00   | 21.7            | 45.7                     | 13.0      | 19.6     | 13.6                | 18.8            | 39.4                     | 11.3      | 16.9     |
| 1910.....     | 23.5              | 11.8              | .....             | 41.2               | 23.5         | 100.00   | 4.3             | 16.7                     | 5.4       | 73.6     | 4.2                 | 4.2             | 16.0                     | 5.1       | 70.5     |
| 1911.....     | 30.0              | 40.0              | 10.0              | 20.0               | .....        | 100.00   | 5.4             | 54.4                     | 19.1      | 21.1     | 6.4                 | 5.1             | 51.0                     | 17.8      | 19.7     |
| 1912.....     | 16.7              | 33.3              | .....             | 25.0               | 25.0         | 100.00   | 1.8             | 58.3                     | 20.2      | 19.7     | 6.7                 | 1.7             | 54.4                     | 18.9      | 18.3     |
| Twelve years. | 26.1              | 21.4              | 9.4               | 25.4               | 17.7         | 100.00   | 7.3             | 49.3                     | 14.1      | 29.3     | 13.8                | 6.3             | 42.5                     | 12.1      | 25.3     |

Table 80. This table gives the number of fatal and non-fatal accidents for the year caused by powder, falling coal, roof, etc., and other causes, with percentages.

TABLE 80.—*Fatal and non-fatal accidents caused primarily by explosions of powder, falling coal, rock, etc., and all other causes, with percentages.*

| Causes.                      | Casualties. |           | Percentages. |            | All casualties. | Percentages. |
|------------------------------|-------------|-----------|--------------|------------|-----------------|--------------|
|                              | Fatal.      | Non-fatal | Fatal.       | Non-fatal. |                 |              |
| Blast explosions.....        | 2           | 2         | 16.7         | 9.5        | 4               | 12.1         |
| Blasts, premature.....       | 4           | 3         | 33.3         | 9.5        | 6               | 18.2         |
| Blown out charge.....        |             | 2         |              | 9.5        | 2               | 6.1          |
| Powder explosions.....       | 3           | 5         | 25.0         | 23.8       | 8               | 24.2         |
| Flying coal.....             | 2           | 10        | 25.0         | 47.7       | 13              | 39.4         |
| Total.....                   | 12          | 21        | 100.0        | 100.0      | 33              | 100.0        |
| Falling coal, rock, etc..... | 98          | 364       | 58.3         | 46.7       | 462             | 48.8         |
| All other causes.....        | 70          | 415       | 41.7         | 53.3       | 485             | 51.2         |
| Total.....                   | 168         | 779       | 100.0        | 100.0      | 947             | 100.0        |
| Grand total.....             | 180         | 800       | 18.4         | 81.6       | 980             | 100.0        |

Table 81 presents the record of fatal accidents caused by falling roof and sides, and all other causes, with percentages, each year for thirty years. The number of employees, tons produced, and total deaths is given from year to year, and the totals for the series is shown at the bottom of the table.

TABLE 81—*Fatal accidents in coal mines, caused by falls in mines and from all other causes, the total number of men and tons, with percentages for thirty years.*

| Years.             | Persons employed. | Total tons. | Total deaths. | Causes. |               | Percentage by— |               |
|--------------------|-------------------|-------------|---------------|---------|---------------|----------------|---------------|
|                    |                   |             |               | Falls.  | Other causes. | Falls.         | Other causes. |
| 1883.....          | 23,939            | 12,123,456  | 134           | 40      | 94            | 29.9           | 70.1          |
| 1884.....          | 25,575            | 12,208,076  | 46            | 29      | 17            | 63.0           | 37.0          |
| 1885.....          | 25,946            | 11,834,459  | 39            | 20      | 19            | 51.3           | 48.7          |
| 1886.....          | 25,846            | 11,175,241  | 52            | 32      | 20            | 61.5           | 38.5          |
| 1887.....          | 26,804            | 12,423,066  | 41            | 28      | 13            | 68.3           | 31.7          |
| 1888.....          | 29,410            | 14,328,181  | 55            | 33      | 22            | 60.0           | 40.0          |
| 1889.....          | 30,076            | 14,017,298  | 42            | 26      | 16            | 61.9           | 38.1          |
| 1890.....          | 28,574            | 15,274,727  | 53            | 36      | 17            | 67.9           | 32.1          |
| 1891.....          | 32,951            | 15,660,698  | 60            | 33      | 27            | 55.0           | 45.0          |
| 1892.....          | 33,632            | 17,862,276  | 57            | 28      | 29            | 49.1           | 50.9          |
| 1893.....          | 35,390            | 19,949,564  | 69            | 48      | 21            | 69.6           | 30.4          |
| 1894.....          | 38,477            | 17,113,576  | 72            | 43      | 29            | 59.7           | 40.3          |
| 1895.....          | 38,630            | 17,735,864  | 75            | 38      | 37            | 50.7           | 49.3          |
| 1896.....          | 37,032            | 19,786,626  | 77            | 41      | 36            | 53.2           | 46.8          |
| 1897.....          | 33,788            | 20,072,758  | 69            | 46      | 23            | 66.7           | 33.3          |
| 1898.....          | 35,026            | 18,599,299  | 75            | 43      | 32            | 57.3           | 42.7          |
| 1899.....          | 36,991            | 23,434,445  | 84            | 51      | 33            | 60.7           | 39.3          |
| 1900.....          | 39,384            | 25,153,929  | 94            | 51      | 43            | 54.3           | 45.7          |
| 1901.....          | 44,143            | 26,635,319  | 99            | 57      | 42            | 57.6           | 42.4          |
| 1902.....          | 46,005            | 30,021,300  | 99            | 55      | 44            | 55.6           | 44.4          |
| 1903.....          | 49,814            | 34,955,400  | 156           | 56      | 80            | 48.7           | 51.3          |
| 1904.....          | 54,774            | 37,077,897  | 157           | 65      | 92            | 41.4           | 58.6          |
| 1905.....          | 59,230            | 37,183,374  | 199           | 80      | 119           | 40.2           | 59.8          |
| 1906.....          | 62,283            | 38,317,581  | 155           | 84      | 71            | 54.2           | 45.8          |
| 1907.....          | 66,714            | 47,798,621  | 165           | 84      | 81            | 50.9           | 49.1          |
| 1908.....          | 70,841            | 49,272,452  | 183           | 91      | 92            | 49.7           | 50.3          |
| 1909.....          | 72,733            | 49,163,710  | 213           | 84      | 129           | 39.4           | 60.6          |
| 1910.....          | 74,634            | 48,717,853  | 406           | 65      | 341           | 16.0           | 84.0          |
| 1911.....          | 77,410            | 50,165,099  | 157           | 80      | 77            | 51.0           | 49.0          |
| 1912.....          | 79,411            | 57,514,240  | 180           | 98      | 82            | 54.4           | 45.6          |
| Total—30 years.... |                   | 805,576,384 | 3,363         | 1,585   | 1,778         | 47.1           | 52.9          |

Table 82 gives the occupation of the men killed, the number and per cent in each, and their conjugal relationship.

TABLE 82—*Occupation and conjugal relation of men killed at the mines for the year 1912.*

| Occupations.          | Total deaths. | Per-cent-ages. | Conjugal relations. |         |         |           |               |
|-----------------------|---------------|----------------|---------------------|---------|---------|-----------|---------------|
|                       |               |                | Married.            | Single. | Widows. | Children. | De-pend-ents. |
| Cagers .....          | 2             | 1.11           | 1                   | 1       | 1       | 3         | 4             |
| Drivers .....         | 26            | 14.44          | 11                  | 15      | 11      | 17        | 26            |
| Engineers .....       | 1             | .56            | 1                   | .....   | 1       | 3         | 4             |
| Firemen .....         | 2             | 1.11           | 1                   | 1       | 1       | 2         | 3             |
| Laborers .....        | 14            | 7.78           | 10                  | 4       | 10      | 29        | 35            |
| Loaders .....         | 11            | 6.11           | 9                   | 2       | 9       | 17        | 25            |
| Machine helpers ..... | 6             | 3.33           | 3                   | 3       | 3       | 12        | 15            |
| Machine runners ..... | 7             | 3.89           | 5                   | 2       | 5       | 9         | 14            |
| Mine manager .....    | 1             | .56            | 1                   | .....   | 1       | 4         | 5             |
| Miners .....          | 84            | 46.66          | 61                  | 23      | 61      | 164       | 209           |
| Motorman .....        | 1             | .56            | 1                   | .....   | 1       | .....     | 1             |
| Operator .....        | 1             | .56            | 1                   | .....   | 1       | 6         | 2             |
| Shot firers .....     | 4             | 2.22           | 3                   | 1       | 3       | 4         | 7             |
| Timbermen .....       | 7             | 3.89           | 7                   | .....   | 7       | 11        | 15            |
| Trackmen .....        | 3             | 1.67           | 1                   | 2       | 1       | 2         | 3             |
| Trappers .....        | 4             | 2.22           | 1                   | 3       | 1       | 7         | 2             |
| Tripriders .....      | 4             | 2.22           | 2                   | 2       | 2       | 2         | 4             |
| Weighmen .....        | 2             | 1.11           | 2                   | .....   | 2       | 3         | 5             |
| Total .....           | 180           | 100.00         | 121                 | 59      | 121     | 295       | 379           |



Table 83 gives nine leading occupations of the men employed in the shipping mines. The number of men, number of accidents, both fatal and non-fatal, number employed to each accident, ratio per 1,000, and the average age is shown.

TABLE 83—*Occupational casualties, fatal and non-fatal, number of employees in each occupation, percentages and ratio, shipping mines.*

| Classifications of occupation. | Total number of employees in each class. | Number of casualties in each class. |            | Percentage of each class— |         | Number employed in each class to one man— |          | Ratio per 1,000 employed in each class— |         | Average ages of the— |          |
|--------------------------------|--|-------------------------------------|------------|---------------------------|---------|---|----------|---|---------|----------------------|----------|
|                                |  | Fatal.                              | Non-fatal. | Injured.                  | Killed. | Killed.                                   | Injured. | Injured.                                | Killed. | Killed.              | Injured. |
| Cagers.....                    | 880                                      | 2                                   | 21         | 0.23                      | 2.39    | 440                                       | 42       | 2.27                                    | 23.86   | 34                   | 37       |
| Drivers.....                   | 4,690                                    | 25                                  | 167        | 0.53                      | 3.56    | 188                                       | 28       | 5.33                                    | 35.61   | 24                   | 26       |
| Laborers.....                  | 4,624                                    | 14                                  | 60         | 0.30                      | 1.30    | 330                                       | 77       | 3.03                                    | 12.98   | 42                   | 33       |
| Loaders.....                   | 13,177                                   | 11                                  | 36         | 0.08                      | 0.27    | 1,198                                     | 366      | 0.83                                    | 2.73    | 34                   | 35       |
| Machine men.....               | 3,296                                    | 13                                  | 45         | 0.39                      | 1.37    | 254                                       | 73       | 3.94                                    | 13.66   | 33                   | 35       |
| Miners.....                    | 36,845                                   | 79                                  | 367        | 0.21                      | 1.00    | 466                                       | 100      | 2.14                                    | 9.96    | 38                   | 38       |
| Timbermen.....                 | 1,257                                    | 7                                   | 19         | 0.56                      | 1.51    | 179                                       | 66       | 5.57                                    | 15.12   | 40                   | 41       |
| Trackmen.....                  | 1,648                                    | 3                                   | 5          | 0.18                      | 0.30    | 549                                       | 330      | 1.82                                    | 3.03    | 35                   | 45       |
| Trappers.....                  | 1,282                                    | 4                                   | 13         | 0.31                      | 1.01    | 321                                       | 99       | 3.12                                    | 10.14   | 31                   | 22       |
| Total classified.....          | 67,699                                   | 158                                 | 733        | 0.23                      | 1.08    | 428                                       | 92       | 2.33                                    | 10.83   | 34                   | 34       |
| Not classified.....            | 8,708                                    | 15                                  | 59         | 0.17                      | 0.68    | 581                                       | 148      | 1.72                                    | 6.78    | 32                   | 34       |
| Total—all employees..          | 76,407                                   | 173                                 | 792        | 0.23                      | 1.04    | 442                                       | 96       | 2.26                                    | 10.37   | 34                   | 34       |

Table 84. This table gives by occupations the range of ages and the average ages of the men killed. The number killed in each occupation is given in the first column.

TABLE 84—*Range of ages, average age and total number killed, by occupations.*

| Occupations.                  | Total killed. | Range of ages. |                  |                  |                  |                  |                  |                  |                  |                  |              | Average ages. |
|-------------------------------|---------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------|---------------|
|                               |               | Under 20.      | 20 but under 25. | 25 but under 30. | 30 but under 35. | 35 but under 40. | 40 but under 45. | 45 but under 50. | 50 but under 55. | 55 but under 60. | 60 and over. |               |
| Cagers.....                   | 2             |                |                  | 1                |                  |                  | 1                |                  |                  |                  |              | 34            |
| Drivers <sup>a</sup> .....    | 26            | 3              | 14               | 6                | 2                | 1                |                  |                  |                  |                  |              | 24            |
| Engineers.....                | 1             |                |                  |                  |                  |                  |                  |                  | 1                |                  |              | 51            |
| Foremen.....                  | 2             |                |                  |                  | 2                |                  |                  |                  |                  |                  |              | 33            |
| Laborers <sup>b</sup> .....   | 14            |                | 1                | 3                | 1                | 1                | 2                | 1                | 3                | 1                | 1            | 42            |
| Loaders.....                  | 11            |                | 2                | 2                | 3                | 2                |                  |                  |                  | 2                |              | 34            |
| Machine helpers....           | 6             |                |                  | 2                | 1                | 3                |                  |                  |                  |                  |              | 32            |
| Machine runners....           | 7             |                |                  | 2                | 2                | 2                |                  | 1                |                  |                  |              | 33            |
| Mine manager.....             | 1             |                |                  |                  | 1                |                  |                  |                  |                  |                  |              | 30            |
| Miners <sup>c</sup> .....     | *84           | 4              | 5                | 12               | 10               | 17               | 8                | 18               | 5                | 2                | 2            | 38            |
| Motorman.....                 | 1             |                | 1                |                  |                  |                  |                  |                  |                  |                  |              | 23            |
| Operator.....                 | 1             |                |                  |                  |                  |                  |                  |                  |                  | 1                |              | 57            |
| Shot firers.....              | 4             |                |                  | 2                |                  | 1                | 1                |                  |                  |                  |              | 33            |
| Timbermend.....               | 7             |                |                  |                  | 3                | 1                | 1                |                  |                  | 1                | 1            | 40            |
| Trackmen.....                 | 3             |                | 1                |                  |                  | 1                |                  | 1                |                  |                  |              | 35            |
| Trapper <sup>e</sup> .....    | 4             | 2              |                  | 1                |                  |                  |                  |                  |                  |                  | 1            | 30            |
| Tripriders <sup>f</sup> ..... | 4             | 1              |                  |                  | 2                | 1                |                  |                  |                  |                  |              | 30            |
| Weighmen.....                 | 2             |                |                  | 1                |                  |                  | 1                |                  |                  |                  |              | 33            |
| Total.....                    | *180          | 10             | 24               | 32               | 27               | 30               | 14               | 21               | 9                | 7                | 5            | 34            |

\* One, age not given.

<sup>a</sup> Three, 18 years.

<sup>b</sup> One, 70 years.

<sup>c</sup> Two, 63; four, 18 years

<sup>d</sup> One, 62 years.

<sup>e</sup> One, 65; two, 17 years.

<sup>f</sup> One, 19 years.

## NON-FATAL ACCIDENTS.

Table 85 shows, by districts, the non-fatal accidents. There were ninety-one more men injured so as to lose thirty or more days time than last year. The number of tons mined to each man injured is 71,893, while the number last year was 70,755.

TABLE 85—*Non-fatal accidents by districts—1912.*

| Districts.    | Number of injured. | Injured.      |               | Number of employees. |               |        | Total tons of coal mined. | Number of employees to one man injured. | Ratio per 1,000. | Number of tons mined to each man injured. |
|---------------|--------------------|---------------|---------------|----------------------|---------------|--------|---------------------------|---|------------------|---|
|               |                    | Under ground. | Above ground. | Under ground.        | Above ground. | Total. |                           |   |                  |   |
| First.....    | 78                 | 76            | 2             | 5,370                | 566           | 5,936  | 2,612,556                 | 76                                      | 13.1             | 33,494                                    |
| Second.....   | 88                 | 85            | 3             | 4,670                | 418           | 5,088  | 2,250,393                 | 58                                      | 17.3             | 25,573                                    |
| Third.....    | 62                 | 61            | 1             | 4,772                | 492           | 5,264  | 3,015,086                 | 85                                      | 11.8             | 48,630                                    |
| Fourth.....   | 5                  | 5             | .....         | 3,747                | 348           | 4,095  | 2,471,286                 | 819                                     | 1.2              | 494,257                                   |
| Fifth.....    | 92                 | 89            | 3             | 6,452                | 566           | 7,018  | 5,174,966                 | 76                                      | 13.1             | 56,250                                    |
| Sixth.....    | 24                 | 24            | .....         | 7,598                | 661           | 8,259  | 6,014,872                 | 344                                     | 2.9              | 250,620                                   |
| Seventh.....  | 84                 | 82            | 2             | 6,788                | 589           | 7,377  | 7,201,251                 | 88                                      | 11.4             | 85,729                                    |
| Eighth.....   | 108                | 104           | 4             | 6,735                | 680           | 7,415  | 5,854,645                 | 69                                      | 14.6             | 54,210                                    |
| Ninth.....    | 53                 | 52            | 1             | 5,329                | 527           | 5,856  | 4,516,548                 | 111                                     | 9.1              | 85,218                                    |
| Tenth.....    | 21                 | 19            | 2             | 4,712                | 492           | 5,204  | 3,091,428                 | 248                                     | 4.0              | 147,211                                   |
| Eleventh..... | 123                | 113           | 10            | 8,480                | 897           | 9,377  | 8,220,784                 | 76                                      | 13.1             | 66,836                                    |
| Twelfth.....  | 62                 | 58            | 4             | 7,709                | 813           | 8,522  | 7,090,425                 | 132                                     | 7.3              | 114,362                                   |
| The State.    | 800                | 768           | 32            | 72,362               | 7,049         | 79,411 | 57,514,240                | 99                                      | 10.1             | 71,893                                    |

Table 86 gives the record of non-fatal accidents for thirty years. The average of each item for that time will be found at the bottom of the table.

TABLE 86—*Non-fatal accidents for thirty years.*

| Year.                 | Number of men injured. | Total number of employees. | Total number of tons of coal mined. | Number of employees to one man injured. | Ratio per 1,000. | Number of tons of coal produced to one man injured. |
|-----------------------|------------------------|----------------------------|-------------------------------------|---|------------------|---|
| 1883.....             | 231                    | 23,939                     | 12,123,456                          | 104                                     | 9.6              | 52,482  |
| 1884.....             | 197                    | 25,575                     | 12,208,075                          | 130                                     | 7.7              | 61,970  |
| 1885.....             | 176                    | 25,946                     | 11,834,459                          | 147                                     | 6.8              | 67,241  |
| 1886.....             | 171                    | 25,846                     | 11,175,241                          | 151                                     | 6.6              | 66,126  |
| 1887.....             | 180                    | 26,804                     | 12,423,066                          | 149                                     | 6.7              | 69,017  |
| 1888.....             | 179                    | 29,410                     | 14,328,181                          | 164                                     | 6.1              | 80,046  |
| 1889.....             | 201                    | 30,076                     | 14,017,298                          | 150                                     | 6.7              | 69,738  |
| 1890.....             | 294                    | 28,574                     | 15,274,727                          | 97                                      | 10.3             | 51,955  |
| 1891.....             | 367                    | 32,951                     | 15,660,698                          | 90                                      | 11.1             | 42,672  |
| 1892.....             | 370                    | 33,632                     | 17,862,276                          | 91                                      | 11.0             | 48,276  |
| 1893.....             | 403                    | 35,390                     | 19,949,564                          | 88                                      | 11.4             | 49,503  |
| 1894.....             | 521                    | 38,477                     | 17,113,576                          | 74                                      | 13.5             | 32,848  |
| 1895.....             | 605                    | 38,630                     | 17,735,864                          | 64                                      | 15.7             | 29,315  |
| 1896.....             | 672                    | 37,032                     | 19,786,626                          | 55                                      | 18.1             | 29,444  |
| 1897.....             | 518                    | 33,788                     | 20,072,758                          | 65                                      | 15.3             | 38,751  |
| 1898.....             | 438                    | 35,026                     | 18,599,299                          | 80                                      | 12.5             | 42,464  |
| 1899.....             | 597                    | 36,991                     | 23,434,445                          | 62                                      | 16.1             | 39,254  |
| 1900.....             | 611                    | 39,384                     | 25,153,939                          | 65                                      | 15.5             | 41,168  |
| 1901.....             | 422                    | 44,142                     | 26,635,319                          | 104                                     | 9.6              | 63,117  |
| 1902.....             | 406                    | 46,005                     | 30,021,300                          | 127                                     | 8.8              | 73,944  |
| 1903.....             | 410                    | 49,814                     | 34,955,400                          | 121                                     | 8.2              | 85,257  |
| 1904.....             | 507                    | 54,774                     | 37,077,897                          | 108                                     | 9.3              | 73,132  |
| 1905.....             | 535                    | 59,230                     | 37,183,374                          | 111                                     | 9.0              | 69,502  |
| 1906.....             | 480                    | 62,283                     | 38,317,581                          | 130                                     | 7.7              | 79,828  |
| 1907.....             | 636                    | 66,714                     | 47,798,621                          | 105                                     | 9.5              | 75,155  |
| 1908.....             | 819                    | 70,841                     | 49,272,452                          | 86                                      | 11.6             | 60,162  |
| 1909.....             | 894                    | 72,733                     | 49,163,710                          | 81                                      | 12.3             | 54,993  |
| 1910.....             | 742                    | 74,634                     | 48,717,853                          | 101                                     | 9.9              | 65,657  |
| 1911.....             | 709                    | 77,410                     | 50,165,099                          | 109                                     | 9.2              | 70,755  |
| 1912.....             | 800                    | 79,411                     | 57,514,240                          | 99                                      | 10.1             | 71,893  |
| Average 30 years..... | 469                    | 44,516                     | 26,852,546                          | 95                                      | 10.5             | 57,206  |

Table 87. In this table a list of the occupation in which the injured were employed is given. The number injured in each occupation is shown by district.

TABLE 87—*Non-fatal accidents by occupations, with totals and percentages, by districts.*

|                      | Districts. |      |     |      |      |      |      |      |      |       |       |       | Total. | Per-<br>cent-<br>ages. |
|----------------------|------------|------|-----|------|------|------|------|------|------|-------|-------|-------|--------|------------------------|
|                      | 1st.       | 2d.  | 3d. | 4th. | 5th. | 6th. | 7th. | 8th. | 9th. | 10th. | 11th. | 12th. |        |                        |
| Blacksmiths.....     | 1          |      |     |      |      |      |      |      | 1    | 1     |       |       | 3      | .37                    |
| Cagers.....          | 2          | 1    |     |      | 1    | 1    | 4    | 4    | 3    |       | 1     | 4     | 21     | 2.62                   |
| Carpenters.....      |            |      |     |      |      |      |      | 1    |      |       | 2     |       | 3      | .37                    |
| Couplers.....        |            |      |     |      | 2    |      | 1    | 3    |      |       | 1     | 2     | 9      | 1.12                   |
| Drivers.....         | 11         | 16   | 9   | 1    | 20   | 9    | 17   | 30   | 18   | 8     | 17    | 12    | 168    | 21.00                  |
| Engineers.....       |            |      |     |      |      |      |      | 1    |      |       |       |       | 1      | .13                    |
| Firemen.....         |            |      |     |      | 1    |      | 1    |      |      |       | 3     |       | 5      | .62                    |
| Foreman.....         |            |      |     |      |      |      |      |      |      |       |       | 1     | 1      | .13                    |
| Laborers.....        | 3          | 8    | 3   |      | 9    | 1    | 6    | 7    | 1    | 1     | 17    | 4     | 60     | 7.50                   |
| Loaders.....         |            |      |     |      |      | 1    | 12   | 11   | 9    |       | 1     | 2     | 36     | 4.50                   |
| Machinehelpers.....  |            |      |     | 1    |      |      |      | 1    | 3    |       | 2     |       | 7      | .87                    |
| Machine runners..... |            |      | 1   |      |      | 1    | 5    | 6    | 3    | 2     | 14    | 6     | 38     | 4.75                   |
| Machinists.....      |            |      |     |      |      |      |      |      |      |       | 1     |       | 1      | .13                    |
| Mine examiners.....  |            |      | 1   |      |      |      | 1    |      |      |       | 2     |       | 4      | .50                    |
| Mine managers.....   |            |      |     | 1    | 1    |      | 1    |      |      |       |       |       | 3      | .37                    |
| Miners.....          | 56         | 59   | 47  | 1    | 50   | 8    | 33   | 33   | 12   | 8     | 44    | 21    | 372    | 46.50                  |
| Motormen.....        |            | 1    |     |      | 2    |      |      | 2    |      |       | 1     |       | 6      | .75                    |
| Operator.....        |            |      |     | 1    |      |      |      |      |      |       |       |       | 1      | .13                    |
| Pumpmen.....         | 1          |      |     |      |      |      |      |      |      |       | 1     |       | 2      | .25                    |
| Shotfirers.....      |            |      |     |      |      | 1    |      |      |      | 1     | 1     | 1     | 4      | .50                    |
| Spraggers.....       |            |      |     |      |      |      |      |      |      |       | 4     |       | 4      | .50                    |
| Superintendent.....  |            |      |     |      | 1    |      |      |      |      |       |       |       | 1      | .13                    |
| Switchman.....       |            |      |     |      |      | 1    |      |      |      |       |       |       | 1      | .13                    |
| Timbermen.....       |            | 2    |     |      | 3    |      | 1    | 4    | 2    |       | 1     | 6     | 19     | 2.38                   |
| Trackmen.....        | 3          |      | 1   |      |      |      |      | 1    |      |       |       |       | 5      | .62                    |
| Trappers.....        |            |      |     |      | 2    | 1    | 2    | 4    |      |       | 2     | 2     | 13     | 1.63                   |
| Trip riders.....     | 1          |      |     |      |      |      |      |      | 1    |       | 8     | 1     | 11     | 1.37                   |
| Weighman.....        |            | 1    |     |      |      |      |      |      |      |       |       |       | 1      | .13                    |
| Total.....           | 78         | 88   | 62  | 5    | 92   | 24   | 84   | 108  | 53   | 21    | 123   | 62    | 800    | 100.00                 |
| Percentages.....     | 9.8        | 11.0 | 7.9 | 0.6  | 11.5 | 3.0  | 10.5 | 13.5 | 6.6  | 2.6   | 15.4  | 7.7   | 100.00 | .....                  |

Table 88 shows, by districts, the conjugal relation of the men injured, the number reporting time lost, the total number of days lost and the average for each man.

TABLE 88—*Non-fatal accidents, conjugal relations of the injured, dependents, time lost, by districts.*

| Districts.     | Total number injured. | Married. | Single. | Children. | Dependents. | Number reporting time lost. | Total days lost. | Average days lost. |
|----------------|-----------------------|----------|---------|-----------|-------------|-----------------------------|------------------|--------------------|
| First.....     | 78                    | 54       | 24      | 150       | 179         | 72                          | 4,396            | 61.06              |
| Second.....    | 88                    | 51       | 37      | 141       | 188         | 60                          | 3,733            | 62.22              |
| Third.....     | 62                    | 37       | 25      | 82        | 116         | 47                          | 2,476            | 52.68              |
| Fourth.....    | 5                     | 5        |         | 8         | 13          | 3                           | 224              | 74.67              |
| Fifth.....     | 92                    | 58       | 34      | 151       | 188         | 92                          | 5,025            | 54.62              |
| Sixth.....     | 24                    | 12       | 12      | 17        | 27          | 18                          | 1,134            | 63.00              |
| Seventh.....   | 84                    | 48       | 36      | 136       | 169         | 74                          | 5,198            | 70.24              |
| Eighth.....    | 108                   | 49       | 59      | 152       | 177         | 87                          | 5,709            | 65.62              |
| Ninth.....     | 53                    | 31       | 22      | 82        | 113         | 49                          | 2,346            | 47.88              |
| Tenth.....     | 21                    | 16       | 5       | 30        | 46          | 19                          | 821              | 43.21              |
| Eleventh.....  | 123                   | 74       | 49      | 173       | 246         | 96                          | 5,517            | 57.47              |
| Twelfth.....   | 62                    | 34       | 28      | 79        | 110         | 58                          | 2,981            | 51.40              |
| The State..... | 800                   | 469      | 331     | 1,201     | 1,572       | 675                         | 39,560           | 58.61              |

Table 89. Here is shown a list of twenty-four causes of the accidents which resulted in the injury of the 800 men. The table is arranged by districts and shows the number and causes in each district. The per cent injured by each cause and the per cent of the total in each district is also given.

TABLE 89.—*Non-fatal accidents by causes for 1912, by districts, with totals and percentages.*

| Causes.                    | Districts. |      |     |      |      |      |      |      |      |       |       |       | Total. | Per-<br>cent-<br>ages. |
|----------------------------|------------|------|-----|------|------|------|------|------|------|-------|-------|-------|--------|------------------------|
|                            | 1st.       | 2d.  | 3d. | 4th. | 5th. | 6th. | 7th. | 8th. | 9th. | 10th. | 11th. | 12th. |        |                        |
| Blast explosions.....      |            |      |     |      |      |      |      | 2    |      |       |       |       | 2      | 0.2                    |
| Blown out charge.....      |            |      |     |      |      | 1    |      |      |      |       |       | 1     | 2      | 0.2                    |
| Cage.....                  | 1          |      | 1   |      | 7    |      | 9    |      |      |       | 5     | 1     | 24     | 3.0                    |
| Caught between object..... |            |      |     |      |      |      |      | 5    |      | 2     |       |       | 7      | 0.9                    |
| Coal fell down shaft....   | 1          | 1    | 1   |      |      |      |      | 2    |      |       | 1     | 1     | 7      | 0.9                    |
| Electric current.....      |            |      |     |      |      |      |      |      | 2    |       |       |       | 2      | 0.2                    |
| Engine.....                | 1          |      |     |      |      |      |      | 1    |      |       |       | 1     | 3      | 0.4                    |
| Falling articles.....      | 1          |      |     | 1    |      | 1    | 5    | 4    | 1    | 1     | 5     | 1     | 20     | 2.5                    |
| Falling coal, rock, etc.   | 47         | 61   | 39  | 3    | 40   | 6    | 35   | 38   | 20   | 7     | 41    | 27    | 364    | 45.6                   |
| Fell down, etc.....        | 2          | 3    | 1   |      | 2    | 1    | 2    | 3    |      |       | 5     | 1     | 20     | 2.5                    |
| Flying articles.....       | 1          |      |     |      | 1    |      | 2    | 1    | 1    | 1     | 1     |       | 8      | 1.0                    |
| Flying coal.....           | 2          |      | 1   |      | 4    |      |      | 2    |      |       | 1     |       | 10     | 1.2                    |
| Gas explosion.....         | 2          |      |     |      | 2    | 1    | 2    | 1    |      |       | 12    | 3     | 23     | 2.9                    |
| Hot water and steam..      |            |      |     |      | 1    |      |      |      | 1    |       |       |       | 2      | 0.2                    |
| Lifting weight.....        | 2          |      |     |      |      |      |      |      |      |       |       | 1     | 3      | 0.4                    |
| Machine.....               |            |      | 1   |      | 1    |      | 2    | 2    | 1    |       | 11    | 4     | 22     | 2.8                    |
| Motor.....                 |            |      |     |      |      | 1    | 1    | 2    |      |       | 3     |       | 7      | 0.9                    |
| Mule, injured by.....      |            | 2    |     |      | 2    |      | 2    | 6    | 3    | 1     | 4     | 2     | 22     | 2.8                    |
| Nail, stepped on.....      |            |      |     |      |      |      |      | 1    |      |       |       |       | 1      | 0.1                    |
| Pit cars.....              | 16         | 18   | 13  | 1    | 27   | 12   | 23   | 30   | 20   | 7     | 27    | 16    | 210    | 26.3                   |
| Powder explosion.....      |            |      |     | 1    |      | 1    |      | 2    |      |       | 1     |       | 5      | 0.6                    |
| Premature blasts.....      |            |      |     | 1    |      |      |      |      |      |       | 1     |       | 2      | 0.2                    |
| Railroad cars.....         | 1          | 1    | 1   |      |      |      |      | 1    |      | 1     | 1     | 3     | 9      | 1.1                    |
| Struck by articles.....    | 1          | 2    | 2   |      | 4    | 1    | 1    | 5    | 4    | 1     | 4     |       | 25     | 3.1                    |
| Totals.....                | 78         | 88   | 62  | 5    | 92   | 24   | 84   | 108  | 53   | 21    | 123   | 62    | 800    | 100.0                  |
| Percentages.....           | 9.8        | 11.0 | 7.8 | 0.6  | 11.5 | 3.0  | 10.5 | 13.5 | 6.6  | 2.6   | 15.4  | 7.8   | 100.0  | .....                  |

Table 90 presents the causes of non-fatal accidents reduced to two classes: use of powder, and other causes. It will be seen that the use of powder is responsible for twenty-one accidents, while 779 received injuries from the other causes.

The totals for the preceding eleven years follow the districts and discloses the fact that 430 men in twelve years have been injured from the use of powder.

TABLE 90—*Non-fatal accidents caused primarily by explosions of powder, gas explosions, falling coal, rock, etc., pit cars and various causes, by districts, for 1912, and for the eleven preceding years.*

| Districts and years. | Use of powder.    |                   |                   |                    |              | Total from use of powder. | Other causes.   |                          |           |          | Total.             |                  |
|----------------------|-------------------|-------------------|-------------------|--------------------|--------------|---------------------------|-----------------|--------------------------|-----------|----------|--------------------|------------------|
|                      | Blast explosions. | Blast, premature. | Blown out charge. | Powder explosions. | Flying coal. |                           | Gas explosions. | Falling coal, rock, etc. | Pit cars. | Various. | From other causes. | From all causes. |
| First.....           |                   |                   |                   |                    | 2            | 2                         | 2               | 47                       | 16        | 11       | 76                 | 78               |
| Second.....          |                   |                   |                   |                    |              |                           |                 | 61                       | 18        | 9        | 88                 | 88               |
| Third.....           |                   | 1                 |                   | 1                  | 1            | 3                         |                 | 39                       | 13        | 7        | 59                 | 62               |
| Fourth.....          |                   |                   |                   |                    |              |                           |                 | 3                        | 1         | 1        | 5                  | 5                |
| Fifth.....           |                   |                   |                   | 1                  | 4            | 5                         | 2               | 40                       | 27        | 18       | 87                 | 92               |
| Sixth.....           |                   |                   | 1                 |                    |              | 1                         | 1               | 6                        | 12        | 4        | 23                 | 24               |
| Seventh.....         |                   |                   |                   |                    |              |                           | 2               | 35                       | 23        | 24       | 84                 | 84               |
| Eighth.....          | 2                 |                   |                   | 2                  | 2            | 6                         | 1               | 38                       | 30        | 33       | 102                | 108              |
| Ninth.....           |                   |                   |                   |                    |              |                           |                 | 20                       | 20        | 13       | 53                 | 53               |
| Tenth.....           |                   |                   |                   |                    |              |                           |                 | 7                        | 7         | 7        | 21                 | 21               |
| Eleventh.....        |                   | 1                 |                   | 1                  | 1            | 3                         | 12              | 41                       | 27        | 40       | 120                | 123              |
| Twelfth.....         |                   |                   | 1                 |                    |              | 1                         | 3               | 27                       | 16        | 15       | 61                 | 62               |
| 1912.....            | 2                 | 2                 | 2                 | 5                  | 10           | 21                        | 23              | 364                      | 210       | 182      | 779                | 800              |
| 1911.....            | 1                 | 3                 | 3                 | 6                  | 6            | 19                        | 11              | 327                      | 211       | 141      | 690                | 709              |
| 1910.....            | 2                 | 10                | 1                 | 7                  | 8            | 28                        | 14              | 369                      | 188       | 143      | 714                | 742              |
| 1909.....            | 14                | 3                 |                   | 11                 | 10           | 38                        | 25              | 423                      | 249       | 159      | 856                | 894              |
| 1908.....            | 8                 | 3                 |                   | 11                 | 14           | 36                        | 35              | 402                      | 209       | 137      | 783                | 819              |
| 1907.....            | 8                 | 4                 | 7                 | 16                 | 15           | 50                        | 9               | 327                      | 171       | 79       | 586                | 636              |
| 1906.....            | 7                 | 1                 | 6                 | 9                  | 9            | 32                        | 6               | 253                      | 110       | 79       | 448                | 480              |
| 1905.....            | 13                | 3                 | 6                 | 15                 | 13           | 50                        | 3               | 269                      | 129       | 84       | 485                | 535              |
| 1904.....            | 6                 | 5                 | 2                 | 29                 | 12           | 54                        | 6               | 264                      | 123       | 60       | 453                | 507              |
| 1903.....            | 13                | 3                 | 12                | 7                  | 12           | 47                        | 5               | 164                      | 128       | 66       | 363                | 410              |
| 1902.....            | 15                | 1                 | 1                 | 6                  | 5            | 28                        | 2               | 198                      | 125       | 53       | 378                | 406              |
| 1901.....            |                   | 11                | 2                 | 5                  | 9            | 27                        | 3               | 233                      | 113       | 46       | 395                | 422              |
| Twelve years         | 89                | 49                | 42                | 127                | 123          | 430                       | 142             | 3,593                    | 1,966     | 1,229    | 6,930              | 7,360            |



Table 91 gives the percentages of the number injured by the leading causes each year for twelve years.

TABLE 91—*Percentages of non-fatal accidents for twelve years—1901-1912—by causes.*

| Years.      | Use of powder.    |                    |                   |                    |              | From powder, other named causes and all causes. | Other causes.   |                          |           |          | All causes. |                 |                          |           |          |
|-------------|-------------------|--------------------|-------------------|--------------------|--------------|---|-----------------|--------------------------|-----------|----------|-------------|-----------------|--------------------------|-----------|----------|
|             | Blast explosions. | Blasts, premature. | Blown out charge. | Powder explosions. | Flying coal. |   | Gas explosions. | Falling coal, rock, etc. | Pit cars. | Various. | Powder.     | Gas explosions. | Falling coal, rock, etc. | Pit cars. | Various. |
| 1901.....   | 40.7              | 7.4                | 18.5              | 33.4               | 100.0        | 0.8   | 59.0            | 28.7                     | 11.5      | 6.4      | 0.8         | 53.1            | 26.8                     | 10.9      |          |
| 1902.....   | 53.6              | 3.6                | 3.6               | 21.4               | 17.8         | 100.0   | 0.6             | 52.4                     | 33.0      | 14.0     | 6.9         | 0.5             | 48.8                     | 30.7      | 13.1     |
| 1903.....   | 27.7              | 6.3                | 25.5              | 14.9               | 25.5         | 100.0   | 1.4             | 45.2                     | 35.3      | 18.1     | 11.5        | 1.2             | 40.0                     | 31.2      | 16.1     |
| 1904.....   | 11.1              | 9.3                | 3.7               | 53.7               | 22.2         | 100.0   | 1.3             | 58.3                     | 27.2      | 13.2     | 10.6        | 1.2             | 25.1                     | 24.3      | 11.8     |
| 1905.....   | 26.0              | 6.0                | 12.0              | 30.0               | 26.0         | 100.0   | 6.2             | 55.5                     | 26.6      | 11.7     | 9.3         | 0.6             | 50.3                     | 24.2      | 15.7     |
| 1906.....   | 21.9              | 3.1                | 18.8              | 28.1               | 28.1         | 100.0   | 1.3             | 56.5                     | 24.6      | 17.6     | 6.7         | 1.2             | 52.7                     | 22.4      | 17.0     |
| 1907.....   | 16.0              | 8.0                | 14.0              | 32.0               | 30.0         | 100.0   | 1.5             | 55.8                     | 29.2      | 13.5     | 7.9         | 1.4             | 51.4                     | 26.9      | 12.4     |
| 1908.....   | 22.2              | 8.3                | .....             | 30.6               | 38.9         | 100.0   | 4.5             | 51.4                     | 26.7      | 17.4     | 4.4         | 4.3             | 49.1                     | 25.5      | 16.7     |
| 1909.....   | 36.8              | 7.9                | .....             | 29.0               | 26.3         | 100.0   | 2.9             | 49.4                     | 29.1      | 18.6     | 4.2         | 2.8             | 47.3                     | 27.9      | 17.8     |
| 1910.....   | 7.1               | 35.7               | 3.6               | 25.0               | 28.6         | 100.0   | 2.0             | 51.7                     | 26.3      | 20.0     | 3.8         | 1.9             | 49.7                     | 25.3      | 19.3     |
| 1911.....   | 5.2               | 15.8               | 15.8              | 31.6               | 31.6         | 100.0   | 1.6             | 47.4                     | 30.6      | 20.4     | 2.7         | 1.5             | 46.1                     | 29.8      | 19.9     |
| 1912.....   | 9.5               | 9.5                | 9.5               | 23.8               | 47.7         | 100.0   | 2.9             | 46.7                     | 27.0      | 23.4     | 2.6         | 2.9             | 45.5                     | 26.3      | 22.7     |
| Twelve yrs. | 20.7              | 11.4               | 9.8               | 29.5               | 28.6         | 100.0   | 2.0             | 51.9                     | 28.4      | 17.7     | 5.8         | 2.0             | 48.8                     | 26.7      | 16.7     |

Table 92. This table presents the range of ages, the average age and the total number injured by occupations.

TABLE 92—*Range of ages, average age and total number injured, by occupations.*

| Occupations.         | Number injured. | Range of ages—years. |                  |                  |                  |                  |                  |                  |                  |                  |              | Average age. |
|----------------------|-----------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------|--------------|
|                      |                 | Under 20.            | 20 but under 25. | 25 but under 30. | 30 but under 35. | 35 but under 40. | 40 but under 45. | 45 but under 50. | 50 but under 55. | 55 but under 60. | 60 and over. |              |
| Blacksmiths.....     | 3               | .....                | .....            | 1                | .....            | 2                | .....            | .....            | .....            | .....            | .....        | 33           |
| Cagers*.....         | 21              | .....                | 1                | 2                | 6                | 5                | 3                | 1                | 1                | 1                | .....        | 37           |
| Carpenter.....       | 3               | .....                | 1                | .....            | 1                | .....            | .....            | .....            | .....            | .....            | a1           | 40           |
| Couplers.....        | 9               | b3                   | 3                | 2                | 1                | .....            | .....            | .....            | .....            | .....            | .....        | 22           |
| Drivers†.....        | 168             | c15                  | 66               | 50               | 24               | 1                | 7                | 4                | .....            | .....            | .....        | 27           |
| Engineer.....        | 1               | .....                | .....            | .....            | 1                | .....            | .....            | .....            | .....            | .....            | .....        | 33           |
| Firemen.....         | 5               | .....                | 2                | 1                | 2                | .....            | .....            | .....            | .....            | .....            | .....        | 27           |
| Foreman.....         | 1               | .....                | .....            | .....            | .....            | 1                | .....            | .....            | .....            | .....            | .....        | 38           |
| Laborers.....        | 60              | d5                   | 14               | 10               | 6                | 8                | 5                | 3                | 3                | 3                | e3           | 33           |
| Loaders.....         | 36              | .....                | 8                | 4                | 8                | 7                | 2                | 4                | 1                | .....            | f2           | 35           |
| Machine helpers..... | 7               | .....                | .....            | 1                | 5                | .....            | .....            | 1                | .....            | .....            | .....        | 34           |
| Machine runners..... | 38              | .....                | 2                | 9                | 7                | 6                | 8                | 4                | 2                | .....            | .....        | 35           |
| Machinist.....       | 1               | .....                | .....            | .....            | .....            | .....            | 1                | .....            | .....            | .....            | .....        | 42           |
| Mine examiners.....  | 4               | .....                | .....            | 1                | .....            | .....            | 3                | .....            | .....            | .....            | .....        | 39           |
| Mine managers.....   | 3               | .....                | .....            | .....            | 3                | .....            | .....            | .....            | .....            | .....            | .....        | 31           |
| Miners‡.....         | 372             | g9                   | 29               | 43               | 55               | 67               | 54               | 53               | 28               | 14               | h15          | 38           |
| Motormen.....        | 6               | .....                | 1                | 1                | 2                | .....            | 1                | 1                | .....            | .....            | .....        | 34           |
| Operator.....        | 1               | .....                | .....            | .....            | 1                | .....            | .....            | .....            | .....            | .....            | .....        | 32           |
| Pumpman.....         | 2               | .....                | .....            | .....            | 1                | .....            | .....            | 1                | .....            | .....            | .....        | 39           |
| Shot firers.....     | 4               | .....                | .....            | .....            | .....            | 2                | 1                | 1                | .....            | .....            | .....        | 40           |
| Spraggers.....       | 4               | i1                   | 1                | .....            | 2                | .....            | .....            | .....            | .....            | .....            | .....        | 26           |
| Superintendent.....  | 1               | .....                | .....            | .....            | .....            | .....            | .....            | .....            | .....            | 1                | .....        | 55           |
| Switchman.....       | 1               | .....                | 1                | .....            | .....            | .....            | .....            | .....            | .....            | .....            | .....        | 20           |
| Timbermen.....       | 19              | .....                | 1                | 2                | 1                | 5                | 1                | 5                | 3                | .....            | j1           | 41           |
| Trackmen  .....      | 5               | .....                | .....            | .....            | .....            | 1                | .....            | 2                | 1                | .....            | .....        | 45           |
| Trappers.....        | 13              | k11                  | .....            | .....            | .....            | .....            | .....            | .....            | 2                | .....            | .....        | 22           |
| Trip riders.....     | 11              | l2                   | 7                | 1                | .....            | .....            | 1                | .....            | .....            | .....            | .....        | 23           |
| Weighman.....        | 1               | .....                | .....            | .....            | .....            | .....            | .....            | .....            | 1                | .....            | .....        | 50           |
| Total.....           | 800             | 46                   | 137              | 128              | 126              | 105              | 87               | 80               | 42               | 19               | 22           | 34           |

\* One, age not reported.

† One, age not reported.

‡ Five, age not reported.

|| One, age not reported.

a One, 67.

b Two, 17; one, 19.

c Four, 17; five, 18; six, 19.

d Two, 16; one, 17; two, 19.

e One, 70.

f One, 61; one, 68.

g One, 16; one, 17; three, 18; four, 19.

h One, 61; two, 63; four, 64; three, 65; one, 68

i One, 18.

j One, 62.

k Five, 16; four, 17; one, 18; one, 19

l One, 18; one, 19.

Table 93 shows the number of non-fatal accidents, the number caused by falling roof and sides and from all other causes, with percentages, for a series of thirty years. Fifty-four per cent of all the accidents was caused by falling roof, etc.

TABLE 93—*Non-fatal accidents from falling roof and sides, and other causes, with percentages caused by falling roof—thirty years.*

| Years.              | Non-fatal accidents. |                         |                   | Percentages—                     |                   |
|---------------------|----------------------|-------------------------|-------------------|----------------------------------|-------------------|
|                     | Total.               | Falling roof and sides. | All other causes. | Caused by falling roof or sides. | All other causes. |
| 1883.....           | 231                  | 130                     | 101               | 56.28                            | 43.72             |
| 1884.....           | 197                  | 135                     | 62                | 68.53                            | 31.47             |
| 1885.....           | 176                  | 118                     | 58                | 67.00                            | 33.00             |
| 1886.....           | 171                  | 109                     | 62                | 63.74                            | 36.36             |
| 1887.....           | 180                  | 124                     | 56                | 68.88                            | 31.12             |
| 1888.....           | 179                  | 112                     | 67                | 62.58                            | 37.42             |
| 1889.....           | 201                  | 129                     | 72                | 64.17                            | 35.83             |
| 1890.....           | 294                  | 196                     | 98                | 66.66                            | 33.34             |
| 1891.....           | 367                  | 227                     | 140               | 61.85                            | 38.15             |
| 1892.....           | 370                  | 234                     | 136               | 63.25                            | 36.7              |
| 1893.....           | 403                  | 254                     | 149               | 63.03                            | 36.97             |
| 1894.....           | 521                  | 294                     | 227               | 56.43                            | 43.57             |
| 1895.....           | 605                  | 338                     | 267               | 55.87                            | 44.13             |
| 1896.....           | 672                  | 373                     | 299               | 55.51                            | 44.49             |
| 1897.....           | 518                  | 310                     | 208               | 59.85                            | 40.15             |
| 1898.....           | 438                  | 252                     | 186               | 60.87                            | 39.13             |
| 1899.....           | 597                  | 335                     | 262               | 56.12                            | 43.88             |
| 1900.....           | 611                  | 323                     | 288               | 52.86                            | 47.94             |
| 1901.....           | 422                  | 233                     | 189               | 55.21                            | 44.79             |
| 1902.....           | 406                  | 198                     | 208               | 48.77                            | 51.23             |
| 1903.....           | 410                  | 190                     | 220               | 46.34                            | 53.66             |
| 1904.....           | 507                  | 264                     | 243               | 52.07                            | 47.93             |
| 1905.....           | 535                  | 271                     | 264               | 50.66                            | 49.34             |
| 1906.....           | 480                  | 253                     | 227               | 52.71                            | 47.29             |
| 1907.....           | 636                  | 327                     | 309               | 51.42                            | 48.58             |
| 1908.....           | 819                  | 402                     | 417               | 49.08                            | 50.92             |
| 1909.....           | 894                  | 423                     | 471               | 47.30                            | 52.70             |
| 1910.....           | 742                  | 369                     | 373               | 49.7                             | 50.3              |
| 1911.....           | 709                  | 327                     | 382               | 46.1                             | 53.9              |
| 1912.....           | 800                  | 364                     | 436               | 45.5                             | 54.5              |
| Total 30 years..... | 14,091               | 7,614                   | 6,477             | 54.0                             | 46.0              |

Table 94 gives for thirty years the number killed and injured, with percentages, by falling roof and sides.

TABLE 94—*Total number killed and injured, with percentages of all accidents caused by falling roof or sides for thirty years.*

| Years.              | Number from all causes. |          |        | Per cent by falling roof and sides. |          |        |
|---------------------|-------------------------|----------|--------|-------------------------------------|----------|--------|
|                     | Killed.                 | Injured. | Total. | Killed.                             | Injured. | Total. |
| 1883.....           | 134                     | 231      | 365    | 30.0                                | 56.28    | 47.7   |
| 1884.....           | 46                      | 197      | 243    | 56.5                                | 68.53    | 66.25  |
| 1885.....           | 39                      | 176      | 215    | 51.3                                | 67.0     | 64.18  |
| 1886.....           | 52                      | 171      | 223    | 61.5                                | 63.74    | 63.23  |
| 1887.....           | 41                      | 180      | 221    | 68.3                                | 68.88    | 68.77  |
| 1888.....           | 55                      | 179      | 234    | 60.0                                | 62.58    | 61.97  |
| 1889.....           | 42                      | 201      | 243    | 61.9                                | 64.17    | 63.78  |
| 1890.....           | 53                      | 294      | 347    | 67.9                                | 66.66    | 66.86  |
| 1891.....           | 60                      | 367      | 427    | 55.0                                | 61.85    | 60.88  |
| 1892.....           | 57                      | 370      | 427    | 49.1                                | 63.25    | 61.36  |
| 1893.....           | 69                      | 403      | 472    | 69.6                                | 63.03    | 63.98  |
| 1894.....           | 72                      | 521      | 593    | 58.3                                | 56.43    | 56.82  |
| 1895.....           | 75                      | 605      | 680    | 50.7                                | 55.87    | 55.59  |
| 1896.....           | 77                      | 672      | 749    | 53.3                                | 55.51    | 55.27  |
| 1897.....           | 69                      | 518      | 587    | 66.7                                | 59.85    | 60.65  |
| 1898.....           | 75                      | 438      | 513    | 57.33                               | 60.87    | 60.34  |
| 1899.....           | 84                      | 597      | 681    | 60.71                               | 56.12    | 56.68  |
| 1900.....           | 94                      | 611      | 705    | 54.3                                | 52.86    | 52.1   |
| 1901.....           | 99                      | 422      | 521    | 56.43                               | 55.21    | 55.45  |
| 1902.....           | 99                      | 406      | 505    | 55.55                               | 48.77    | 50.1   |
| 1903.....           | 156                     | 410      | 566    | 50.64                               | 46.24    | 47.53  |
| 1904.....           | 157                     | 507      | 664    | 49.68                               | 52.07    | 51.51  |
| 1905.....           | 199                     | 535      | 734    | 40.20                               | 50.64    | 47.82  |
| 1906.....           | 155                     | 480      | 635    | 54.2                                | 52.7     | 53.07  |
| 1907.....           | 165                     | 636      | 801    | 50.91                               | 51.42    | 51.31  |
| 1908.....           | 183                     | 819      | 1,002  | 49.7                                | 49.08    | 49.6   |
| 1909.....           | 213                     | 894      | 1,107  | 39.4                                | 47.3     | 45.8   |
| 1910.....           | 406                     | 742      | 1,148  | 16.01                               | 49.73    | 37.8   |
| 1911.....           | 157                     | 709      | 866    | 51.0                                | 46.1     | 47.0   |
| 1912.....           | 180                     | 800      | 980    | 54.4                                | 45.5     | 47.1   |
| Total 30 years..... | 3,363                   | 14,091   | 17,454 | 47.1                                | 54.0     | 52.7   |

Table 95. In this table is shown, by percentages, the increase or decrease in the number of men employed, tons produced and accidents, from year to year, for thirty years.

TABLE 95—*Percentages of increase and decrease from year to year of men employed, tons produced, men killed and men injured for a series of thirty years.*

| Year.             | Men employed. |           | Tons produced. |           | Killed.   |           | Injured.  |           |
|-------------------|---------------|-----------|----------------|-----------|-----------|-----------|-----------|-----------|
|                   | Increase.     | Decrease. | Increase.      | Decrease. | Increase. | Decrease. | Increase. | Decrease. |
| 1883 to 1884..... | 6.83          | .....     | 0.7            | .....     | .....     | 65.67     | .....     | 14.7      |
| 1885.....         | 1.45          | .....     | .....          | 3.06      | .....     | 15.22     | .....     | 10.66     |
| 1886.....         | .....         | 0.38      | .....          | 5.57      | 33.33     | .....     | .....     | 2.84      |
| 1887.....         | 3.71          | .....     | 11.17          | .....     | .....     | 21.15     | 5.26      | .....     |
| 1888.....         | 9.72          | .....     | 15.34          | .....     | 26.83     | .....     | .....     | 0.56      |
| 1889.....         | 2.26          | .....     | .....          | 2.17      | .....     | 23.64     | 12.29     | .....     |
| 1890.....         | .....         | 5.00      | 8.97           | .....     | 26.19     | .....     | 46.27     | .....     |
| 1891.....         | 15.31         | .....     | 3.53           | .....     | 13.2      | .....     | 24.83     | .....     |
| 1892.....         | 2.07          | .....     | 14.06          | .....     | .....     | 5.00      | 0.82      | .....     |
| 1893.....         | 5.23          | .....     | 11.69          | .....     | 21.05     | .....     | 8.92      | .....     |
| 1894.....         | 8.72          | .....     | .....          | 14.22     | 4.35      | .....     | 29.28     | .....     |
| 1895.....         | 0.40          | .....     | 3.64           | .....     | 4.17      | .....     | 16.12     | .....     |
| 1896.....         | .....         | 4.7       | 11.56          | .....     | 2.67      | .....     | 11.7      | .....     |
| 1897.....         | .....         | 8.82      | 1.45           | .....     | .....     | 10.39     | .....     | 22.32     |
| 1898.....         | 3.66          | .....     | .....          | 7.34      | 8.7       | .....     | .....     | 15.44     |
| 1899.....         | 5.61          | .....     | 26.00          | .....     | 12.00     | .....     | 36.30     | .....     |
| 1900.....         | 6.47          | .....     | 7.34           | .....     | 11.90     | .....     | 2.35      | .....     |
| 1901.....         | 12.08         | .....     | 5.89           | .....     | 5.32      | .....     | .....     | 30.93     |
| 1902.....         | 4.21          | .....     | 12.71          | .....     | .....     | .....     | .....     | 3.8       |
| 1903.....         | 8.28          | .....     | 16.44          | .....     | 57.58     | .....     | 0.99      | .....     |
| 1904.....         | 9.96          | .....     | 6.07           | .....     | 0.64      | .....     | 23.66     | .....     |
| 1905.....         | 8.14          | .....     | 0.28           | .....     | 26.75     | .....     | 5.52      | .....     |
| 1906.....         | 5.15          | .....     | 3.05           | .....     | .....     | 22.11     | .....     | 10.28     |
| 1907.....         | 7.11          | .....     | 24.74          | .....     | 6.45      | .....     | 32.50     | .....     |
| 1908.....         | 6.19          | .....     | 3.08           | .....     | 10.91     | .....     | 28.77     | .....     |
| 1909.....         | 2.67          | .....     | .....          | 0.22      | 16.39     | .....     | 9.16      | .....     |
| 1910.....         | 2.61          | .....     | .....          | 0.91      | 90.61     | .....     | .....     | 17.0      |
| 1911.....         | 3.72          | .....     | 2.97           | .....     | .....     | 61.33     | .....     | 4.45      |
| 1912.....         | 2.58          | .....     | 14.6           | .....     | 14.6      | .....     | 12.8      | .....     |
| Total 30 years.   | 231.7         | .....     | 374.4          | .....     | 34.3      | .....     | 246.3     | .....     |

## COAL PRODUCTION OF ILLINOIS.

Table 96. We are indebted to the courtesy of Prof. H. Foster Bain for the statistics shown in this table from the year 1833 to 1881, inclusive.

The total production for the forty-nine years, as shown by Professor Bain, was 73,123,123 tons. The production for the years 1882 to 1910, inclusive, as made to the Bureau of Labor Statistics, was 708,914,114 tons. The output for 1911 and 1912, reported to the State Mining Board, is 107,679,339, making a total for the State since 1883 of 889,716,576 tons.

TABLE 96—*Coal production of Illinois—1833-1912.*

| Year.     | Quantity<br>in tons. | Year.                                      | Quantity<br>in tons. |
|-----------|----------------------|--|----------------------|
| 1833..... | 6,000                | 1860.....                                  | 728,000              |
| 1834..... | 7,500                | 1861.....                                  | 670,000              |
| 1835..... | 8,000                | 1862.....                                  | 780,000              |
| 1836..... | 10,000               | 1863.....                                  | 890,000              |
| 1837..... | 12,500               | 1864.....                                  | 1,000,000            |
| 1838..... | 14,000               | 1865.....                                  | 1,260,000            |
| 1839..... | 15,038               | 1866.....                                  | 1,580,000            |
| 1840..... | 61,967               | 1867.....                                  | 1,800,000            |
| 1841..... | 35,000               | 1868.....                                  | 2,000,000            |
| 1842..... | 58,000               | 1869.....                                  | 1,854,000            |
| 1843..... | 75,000               | 1870.....                                  | 2,624,163            |
| 1844..... | 120,000              | 1871.....                                  | 3,000,000            |
| 1845..... | 165,000              | 1872.....                                  | 3,360,000            |
| 1846..... | 165,000              | 1873.....                                  | 3,920,000            |
| 1847..... | 180,000              | 1874.....                                  | 4,203,000            |
| 1848..... | 200,000              | 1875.....                                  | 4,453,178            |
| 1849..... | 260,000              | 1876.....                                  | 5,000,000            |
| 1850..... | 300,000              | 1877.....                                  | 5,350,000            |
| 1851..... | 320,000              | 1878.....                                  | 5,700,000            |
| 1852..... | 340,000              | 1879.....                                  | 5,000,000            |
| 1853..... | 375,000              | 1880.....                                  | 6,115,377            |
| 1854..... | 385,000              | 1881.....                                  | 6,720,000            |
| 1855..... | 400,000              | Total 49 years.....                        | 73,123,123           |
| 1856..... | 410,000              | Reported to Bureau of Labor 1882-1910..... | 708,914,114          |
| 1857..... | 450,000              | Reported to State Mining Board...          | 107,679,339          |
| 1858..... | 490,000              | Total output of the State.....             | 889,716,576          |
| 1859..... | 530,000              |  |                      |

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REPORTS  
of the  
State Inspectors  
of Mines.

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## FIRST INSPECTION DISTRICT—1912.

## ANNUAL REPORT.

Counties—Grundy, LaSalle, Livingston and Will.

HECTOR McALLISTER, *Inspector, Streator.**Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Grundy, LaSalle, Livingston and Will.

## SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|   |           |
|---|-----------|
| Number of counties producing coal.....                | 4         |
| Number of shipping mines.....                         | 24        |
| Number of local mines.....                            | 36        |
| Number of new or reopened mines.....                  | 6         |
| Number of closed or abandoned mines.....              | 3         |
| Number of miners.....                                 | 4,344     |
| Others underground, men.....                          | 924       |
| Boys underground.....                                 | 102       |
| Boys above ground.....                                | 14        |
| Others above ground.....                              | 552       |
| Total number of employes.....                         | 5,936     |
| Total tons of coal produced.....                      | 2,612,556 |
| Days of active operation, all mines.....              | 180       |
| Kegs of powder used for blasting coal.....            | 26,754    |
| Tons of coal shipped.....                             | 1,892,803 |
| Tons supplied to locomotives.....                     | 69,102    |
| Tons sold to local trade.....                         | 225,377   |
| Tons consumed and wasted at the mines.....            | 425,274   |
| Number of fatal accidents.....                        | 8         |
| Number of non-fatal accidents.....                    | 78        |
| Number of employees to each fatal accident.....       | 742       |
| Number of employees to each non-fatal accident.....   | 76        |
| Tons of coal produced to each fatal accident.....     | 326,749   |
| Tons of coal produced to each non-fatal accident..... | 33,494    |
| Ratio of fatal accidents per 1,000 employees.....     | 1.35      |

The following shows the coal production by counties, for the years ended June 30, 1911 and 1912, with the increase or decrease in each county:

| Counties.         | Total output—Tons. |           | Increase. | Decrease. |
|-------------------|--------------------|-----------|-----------|-----------|
|                   | 1911.              | 1912.     |           |           |
| Grundy.....       | 601,393            | 756,388   | 154,955   |           |
| LaSalle.....      | 1,354,784          | 1,605,482 | 250,698   |           |
| Livingston.....   | 116,912            | 71,685    |           | 45,227    |
| Will.....         | 164,325            | 179,001   | 14,676    |           |
| Total.....        | 2,237,414          | 2,612,556 | 420,369   | 45,227    |
| Net increase..... |                    |           | 375,142   |           |

## NEW AND ABANDONED MINES.

Six new mines have been opened and three have been abandoned this year.

## CHANGE OF OWNERSHIP.

Ed. Turk has purchased the mine formerly operated by W. J. McMillin & Son, Streator, Livingston County.

Massey Brothers have purchased the mine formerly operated by Ben Davis & Son, Streator, LaSalle County.

## MINE FIRES.

The engine and boiler house of the Spicer Coal Company, Seneca, LaSalle County, was destroyed by fire on the night of April 27, 1912.

## CYCLONE WRECKS TOWER.

The top works of the Big Four Wilmington Coal Co.'s No. 5 mine, Carbon Hill, Grundy County, was destroyed by cyclone on the night of April 21, 1912.

## FATAL ACCIDENTS.

September 5, 1911, Abarre Cesare, miner, aged 45 years, married, was killed instantly by an explosion of dynamite in the Wilmington Star Mining Co.'s No. 7 mine, Coal City, Grundy County. Deceased secured two sticks of dynamite with caps from the top boss, stating he was going to fire a brushing shot at noon. After receiving the dynamite he hurried into his working place, and it is supposed he made a hole in the coal with a pick and put the dynamite in thinking it would blow through to the next room, but, in some unaccountable manner, the dynamite exploded killing him instantly. He leaves a widow and five children.

September 8, 1911, Stany Shasulis, miner, aged 46 years, married, was killed instantly at the face of his working place by falling rock in the LaSalle County Carbon Co.'s No. 1 mine, Jonesville, LaSalle County. He leaves a widow and three children.

September 23, 1911, John Capra, miner, aged 27 years, married, was killed by blast explosion in the Wilmington Star Mining Co.'s No. 6 mine, Coal City, Grundy County. He leaves a widow and one child.

November 2, 1911, Robert Galbraith, miner, aged 20 years, single, was killed instantly at the face of his working place by fall of rock in the Brady Coal Co.'s mine, Pontiac, Livingston County.

November 21, 1911, George Wiltrakus, miner, aged 38 years, single, was killed instantly by a fall of rock at the face of his working place in the Oglesby Coal Co.'s mine, Oglesby, LaSalle County.

December 10, 1911, Abroma Boselli, driver, aged 30 years, married, employed in the LaSalle County Carbon Coal Co.'s No. 5 mine, Cedar Point, LaSalle County, was coming down grade on loaded trip of pit cars, and it is supposed he jumped off and was caught between the car and coal rib. He was taken to the hospital in LaSalle where he died the following morning. He leaves a widow and one child.

December 23, 1911, Martin Carra, miner, aged 35 years, married, was killed instantly by a fall of rock at the face of his working place in the Big Four Wilmington Coal Co.'s No. 6 mine, Eilene, Grundy County. He leaves a widow and one child.

February 25, 1912, W. H. Adams, hoisting engineer, aged 51 years, married, was burned by escaping steam at the LaSalle County Carbon Coal Co.'s No. 5 mine, Cedar Point, LaSalle County. He arrived at the mine about eight p. m., and as he did not go on duty until ten-thirty, he laid down underneath the engine house floor. About nine o'clock the engineer then on duty was running the cages up and down the shaft, when the throttle valve burst and Mr. Adams was so severely burned that he died at the hospital in LaSalle the following day. He leaves a widow and three children.

Respectfully submitted,

HECTOR McALLISTER,

*State Inspector of Mines, First District, Streator, Ill.*

*Fatal casualties—First District—June 30, 1912.*

| Date.   | Name.                 | Age. | Occupation.   | Residence.       | Married. | Single. | Widow. | Children. | Dependents. | Cause of death          |
|---------|-----------------------|------|---------------|------------------|----------|---------|--------|-----------|-------------|-------------------------|
| 1911.   |                       |      |               |                  |          |         |        |           |             |                         |
| Sept. 5 | Abarre Cesare.....    | 45   | Miner.....    | Coal City.....   | 1        | ..      | 1      | 5         | 6           | Dynamite explosion....  |
| 8       | Stany Shasulis.....   | 46   | do.....       | Oglesby.....     | 1        | ..      | 1      | 3         | 2           | Falling rock.....       |
| 23      | John Capra.....       | 27   | do.....       | Coal City.....   | 1        | ..      | 1      | 1         | 2           | Shot explosion.....     |
| Nov. 2  | Robt. Galbraith.....  | 20   | do.....       | Pontiac.....     | ..       | 1       | ..     | ..        | ..          | Falling rock.....       |
| 21      | George Wiltrakus..... | 38   | do.....       | Oglesby.....     | ..       | 1       | ..     | ..        | ..          | do.....                 |
| Dec. 10 | Abroma Boselli.....   | 30   | Driver.....   | Cedar Point..... | 1        | ..      | 1      | 1         | 2           | Pit car.....            |
| 23      | Martin Carra.....     | 35   | Miner.....    | Eileen.....      | 1        | ..      | 1      | 2         | 3           | Falling rock.....       |
| 1912.   |                       |      |               |                  |          |         |        |           |             |                         |
| Feb. 26 | Wm. H. Adams.....     | 51   | Engineer..... | LaSalle.....     | 1        | ..      | 1      | 3         | ..          | Bursting steam valve... |
|         | Total.....            |      |               |                  | 6        | 2       | 6      | 15        | 15          |                         |

*Recapitulation of fatal casualties—First District—1912.*

| Residence.       | No. | Occupation.   | No. | Cause of accident.    | No. | Colliery.            | No. |
|------------------|-----|---------------|-----|-----------------------|-----|----------------------|-----|
| Cedar Point..... | 1   | Driver.....   | 1   | Blast explosion.....  | 1   | Big Four Wilm.....   | 1   |
| Coal City.....   | 2   | Engineer..... | 1   | Bursting steam pipe.. | 1   | Brady C. Co.....     | 1   |
| Eileen.....      | 1   | Miners.....   | 6   | Dynamite blast.....   | 1   | LaSalle Co.....      | 3   |
| LaSalle.....     | 1   |               |     | Falling rock.....     | 4   | Oglesby.....         | 1   |
| Oglesby.....     | 2   |               |     | Pit car.....          | 1   | Wilmington Star..... | 2   |
| Pontiac.....     | 1   |               |     |                       |     |                      |     |
| Total.....       | 8   |               | 8   |                       | 8   |                      | 8   |

## Non-fatal casualties—First District—June 30, 1912.

| Date.   | Name.            | Residence.       | Age. | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|---------|------------------|------------------|------|----------|---------|-----------|-------------|--|-----------------|
| 1911.   |                  |                  |      |          |         |           |             |  |                 |
| July 6  | Pystox Pistisyik | 23 Deer Park     | 1    | 1        |         |           |             | Leg injured, pit car                       | 58              |
| 8       | John Stringer    | 58 Streator      | 1    | 1        |         |           |             | 1 Back injured, falling rock               | 30              |
| 12      | John Urouka      | 40 Oglesby       | 1    | 1        |         |           |             | do   | 32              |
| 18      | Joe Quiclo       | 63 Braidwood     | 1    | 5        |         |           |             | 7 Ankle injured, falling rock              | 180             |
| Aug. 7  | Bury King        | 22 Streator      | 1    | 1        |         |           |             | 1 Foot injured, pit car                    | 40              |
| 10      | Fred Brown       | 42 Oglesby       | 1    | 5        |         |           |             | 6 Shoulder broken, pit car                 | 44              |
| 11      | Chas. Bergman    | 46 Torino        | 1    | 5        |         |           |             | 6 Back injured, falling rock               | 42              |
| 13      | Louis Chismarick | 52 Streator      | 1    | 5        |         |           |             | 2 Hand injured, pit car                    | 90              |
| 23      | Wm. Gaull        | 30 Jonesville    | 1    | 3        |         |           |             | 4 Ankle injured, falling coal              | 36              |
| 25      | Anton Busyates   | 30 Diamond       | 1    | 1        |         |           |             | Head injured, pit car                      | 45              |
| 31      | Anton Pesmond    | 46 LaSalle       | 1    | 1        |         |           |             | 2 Leg injured, falling rock                | 79              |
| Sept. 8 | Joe Vangasupeu   | 54 S. Wilmington | 1    | 6        |         |           |             | 5 Ankle injured, falling rock              | 42              |
| 13      | Martin Pagliero  | 20 Cedar Point   | 1    | 1        |         |           |             | Leg injured, falling coal                  | 56              |
| 25      | Andrew Wargo     | 46 Streator      | 1    | 1        |         |           |             | Leg broken, falling rock                   | 60              |
| 26      | Andrew Jurio     | 42 S. Wilmington | 1    | 6        |         |           |             | 7 Back broken, falling rock                | 35              |
| Oct. 6  | J. Besovan       | 40 Peru          | 1    | 4        |         |           |             | 5 Hand injured, falling coal               | 44              |
| 11      | A. Sturkno       | 52 Oglesby       | 1    | 1        |         |           |             | 1 Ankle injured, falling coal              | 30              |
| 19      | Joe Smigel       | 40 LaSalle       | 1    | 4        |         |           |             | 5 Rib broken, falling rock                 | 40              |
| 19      | Martin Koliochen | 37 Streator      | 1    | 5        |         |           |             | 6 Back injured, falling rock               | 45              |
| 20      | Chas. Thom       | 42 do            | 1    | 2        |         |           |             | 2 Arm broken, falling rock                 | 30              |
| 26      | P. Blesent       | 35 S. Wilmington | 1    | 6        |         |           |             | 5 Ribs broken, falling rock                | 119             |
| Nov. 11 | Stany Rivines    | 25 Deer Park     | 1    | 1        |         |           |             | Back broken, falling rock                  | 178             |
| 11      | Joe Gawbiano     | 45 S. Wilmington | 1    | 1        |         |           |             | 2 Leg broken, falling coal                 | 147             |
| 11      | John Marfoduro   | 40 Oglesby       | 1    | 1        |         |           |             | 1 Leg injured, falling rock                | 90              |
| 14      | Ed Vanvekei      | 45 Cedar Point   | 1    | 2        |         |           |             | 3 Arm injured, descending cage             | 55              |
| 15      | Nick Revaldo     | 26 Coal City     | 1    | 1        |         |           |             | 2 Ankle injured, falling rock              | 74              |
| 15      | M. Budziok       | Peru             | 1    | 5        |         |           |             | 5 Leg broken, falling rock                 | *               |
| 21      | Ladiseous Doola  | 18 LaSalle       | 1    | 1        |         |           |             | Body injured, falling rock                 | 33              |
| 22      | John Hamilton    | 49 Oglesby       | 1    | 1        |         |           |             | 1 Foot injured, pit car                    | 40              |
| 24      | Anton Yerdis     | 38 Cedar Point   | 1    | 1        |         |           |             | Foot injured, falling rock                 | 51              |
| Dec. 2  | James Heuser     | Peru             | 1    | 5        |         |           |             | 1 Foot injured, pit car                    | *               |
| 9       | Wm. Jerdan       | 45 Eileen        | 1    | 2        |         |           |             | 3 Face and hands burned, gas explosion     | 40              |
| 11      | Chas. Ogolis     | 40 Oglesby       | 1    | 3        |         |           |             | 4 Finger broken, falling rock              | 51              |
| 11      | A. Zinanni       | 33 S. Wilmington | 1    | 3        |         |           |             | 4 Back injured, lifting coal               | 35              |
| 14      | Anton Rolfo      | 39 Coal City     | 1    | 1        |         |           |             | 1 Shoulder injured, pit car                | 76              |
| 15      | L. Pinnick       | 64 S. Wilmington | 1    | 1        |         |           |             | Foot injured, falling rock                 | 187             |
| 23      | John Parrotti    | Peru             | 1    | 2        |         |           |             | 1 do                                       | 79              |
| 26      | Frank Pauleka    | 26 Oglesby       | 1    | 1        |         |           |             | Leg broken, tail chain                     | 134             |
| 27      | Chas. Doherty    | 65 Braidwood     | 1    | 1        |         |           |             | 1 Finger injured, falling coal             | 49              |
| 30      | Jas. Doyle       | 45 Streator      | 1    | 1        |         |           |             | 2 Face and hands burned, gas explosion     | 36              |
| 1912.   |                  |                  |      |          |         |           |             |  |                 |
| Jan. 3  | Peter Deruchia   | 38 Cedar Point   | 1    | 1        |         |           |             | Arm injured, pit car                       | 51              |
| 4       | Mike Ferko       | 52 Streator      | 1    | 5        |         |           |             | 6 Hand injured, falling rock               | 30              |
| 8       | Joe Lucian       | 19 Oglesby       | 1    | 1        |         |           |             | Leg broken, falling rock                   | 90              |
| 12      | Wm. Coutts       | 19 do            | 1    | 1        |         |           |             | Leg injured, fell down                     | 42              |
| 16      | Andrew Rivietta  | 40 Streator      | 1    | 5        |         |           |             | 5 Face injured, flying coal                | 30              |
| 19      | S. Pereseo       | 28 Cedar Point   | 1    | 1        |         |           |             | Finger injured, pit car                    | 43              |
| 19      | Ed Price         | 39 S. Wilmington | 1    | 1        |         |           |             | 1 Arm injured, crowbar                     | 49              |
| 23      | Mike Beston      | 41 LaSalle       | 1    | 1        |         |           |             | Finger injured, pit car                    | 87              |
| 25      | John Klossman    | 44 Jonesville    | 1    | 1        |         |           |             | Toe broken, pit car                        | 85              |
| 26      | J. Lishewski     | 31 LaSalle       | 1    | 2        |         |           |             | 3 Back injured, lifting coal               | 44              |
| Feb. 3  | Mike Beston      | 36 do            | 1    | 1        |         |           |             | Finger injured, falling rock               | 30              |
| 3       | Bart Dinelli     | 34 S. Wilmington | 1    | 2        |         |           |             | 3 Back injured, falling coal               | 70              |
| 6       | S. Ricci         | 26 Cedar Point   | 1    | 1        |         |           |             | Foot injured, falling coal                 | 79              |
| 6       | William Herron   | 40 Coal City     | 1    | 4        |         |           |             | 5 Foot injured, railroad car               | 46              |
| 10      | August Velt      | 47 LaSalle       | 1    | 2        |         |           |             | 3 Eye injured, flying sulphur              | 77              |
| 12      | Albert Johnson   | 64 Torino        | 1    | 1        |         |           |             | Foot injured, falling rock                 | 60              |
| 13      | John Boggetta    | 40 do            | 1    | 7        |         |           |             | 8 Leg injured, falling coal                | 60              |
| 14      | Louis Loogs      | 24 LaSalle       | 1    | 1        |         |           |             | Finger cut off, falling rock               | 50              |
| 14      | Wm. McAllister   | 64 Streator      | 1    | 1        |         |           |             | 1 Body injured, falling rock               | 98              |
| 15      | John Buckley     | 28 S. Wilmington | 1    | 2        |         |           |             | 3 Leg injured, falling rock                | 63              |
| 16      | E. Lardi         | 35 S. Wilmington | 1    | 4        |         |           |             | 5 Back injured, falling rock               | 49              |
| 16      | Ben Peberella    | 40 LaSalle       | 1    | 3        |         |           |             | 4 Arm injured, pit car                     | 56              |
| 22      | Sam Welch        | 48 Oglesby       | 1    | 8        |         |           |             | 9 Foot injured, falling rock               | 30              |
| 23      | Thos. Ross       | 55 Braidwood     | 1    | 5        |         |           |             | 3 Back injured, falling rock               | 98              |

*Non-fatal casualties—First District—Concluded.*

| Date.   | Name.               | Age. | Residence.          | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|---------|---------------------|------|---------------------|----------|---------|-----------|-------------|--|-----------------|
| 1912.   |                     |      |                     |          |         |           |             |  |                 |
| Mar. 2  | Ben Brigga.....     | 44   | S. Wilmington.      | 1        |         | 1         | 2           | Finger broken, falling coal.....           | 35              |
| 12      | John Peckinini..... | 49   | do.....             | 1        |         |           |             | Toe broken, falling rock.....              | 35              |
| 22      | John Plasski.....   | 39   | LaSalle.....        | 1        |         |           | 1           | Leg broken, coal falling down shaft.....   | *               |
| 25      | Ed Bennett.....     | 38   | Cedar Point.....    | 1        |         | 2         | 3           | Finger cut off, falling coal.....          | 44              |
| 26      | Pasq Enriea.....    | 42   | S. Wilmington.      | 1        |         | 8         | 6           | Finger broken, falling rock.....           | 42              |
| 28      | August Schult.....  | 45   | Streator.....       | 1        |         |           |             | Leg injured, flying coal.....              | 62              |
| 29      | T. Bearhart.....    | 35   | LaSalle.....        | 1        |         | 3         | 4           | Leg injured, pit cars.....                 | 37              |
| Apr. 17 | C. Hartnett.....    | 42   | do.....             |          | 1       |           |             | Leg broken, knocked down.....              | 72              |
| 21      | Victor Johnson..... | 35   | Deer Park.....      | 1        |         | 1         | 2           | Hand injured, fan engine.....              | 35              |
| May 4   | Thos. Evans.....    | 30   | Streator.....       | 1        |         | 2         | 3           | Toe cut off, pit car.....                  | 43              |
| 18      | Emil Rureck.....    | 18   | Godley.....         | 1        |         |           |             | Collar bone broken, pit car.....           | 42              |
| June 8  | John Braoine.....   | 45   | S. Wilmington.      |          | 1       |           |             | Leg broken, falling coal.....              | *               |
| 13      | Evan Marfell.....   | 36   | Crockettsville..... | 1        |         | 1         | 2           | Foot injured, falling rock.....            | *               |
| 20      | John Stock.....     | 30   | Oglesby.....        |          | 1       |           |             | Finger injured, falling rock.....          | *               |
|         | Total.....          |      |                     | 54       | 24      | 150       | 179         |  |                 |

\* Not returned to work.

Total number injured..... 78  
 Not returned to work, July 1, 1912..... 6

Number returned..... 72

Time lost by men returned to work, days..... 4,396  
 Average days lost..... 61.06

*Recapitulation of non-fatal casualties—First District—1912.*

| Residence.         | No. | Occupation.     | No. | Cause of accident.     | No. | Colliery.                    | No. |
|--------------------|-----|-----------------|-----|------------------------|-----|------------------------------|-----|
| Braidwood.....     | 3   | Blacksmiths.... | 1   | Cage descending.....   | 1   | Big Four Wilmington.....     | 2   |
| Cedar Point.....   | 7   | Cagers.....     | 2   | Coal fell down shaft.. | 1   | Cahill.....                  | 3   |
| Coal City.....     | 3   | Drivers.....    | 11  | Crowbar.....           | 1   | Chi-Wilm. & Ver.....         | 26  |
| Crockettsville.... | 1   | Laborers.....   | 3   | Falling coal.....      | 14  | Ill. Zinc.....               | 8   |
| Deer Park.....     | 3   | Miners.....     | 56  | Falling rock.....      | 33  | LaSalle Co.....              | 19  |
| Diamond.....       | 1   | Pumpman.....    | 1   | Fan engine.....        | 1   | Matheison & Hegeler.....     | 3   |
| Eileen.....        | 1   | Trackmen.....   | 3   | Flying coal.....       | 2   | Murphy-Linskey & Kasher..... | 3   |
| Godley.....        | 1   | Triprider.....  | 1   | Flying sulphur.....    | 1   | Oglesby.....                 | 7   |
| Jonesville.....    | 2   |                 |     | Fell down.....         | 1   | Wilm. C. M. Mfg.....         | 4   |
| LaSalle.....       | 12  |                 |     | Gas explosion.....     | 2   | Wilmington Star.....         | 3   |
| Oglesby.....       | 11  |                 |     | Knocked down.....      | 1   |                              |     |
| Peru.....          | 4   |                 |     | Lifting coal.....      | 2   |                              |     |
| So. Wilmington..   | 14  |                 |     | Pit car.....           | 16  |                              |     |
| Streator.....      | 12  |                 |     | Railroad car.....      | 1   |                              |     |
| Torino.....        | 3   |                 |     | Tail chain.....        | 1   |                              |     |
| Total.....         | 78  |                 | 78  |                        | 78  |                              | 78  |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—First District—1912.*

| Nature of injuries.        | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percentage of injuries. |
|----------------------------|---------|----------|---------|-----------|-------------|-----------------|----------|-------------------------|
|                            |         |          |         |           |             | Total.          | Average. |                         |
| Ankles injured.....        | 5       | 5        | .....   | 15        | 19          | 362             | 72.40    | 6.42                    |
| Arm broken.....            | 1       | 1        | .....   | 2         | 3           | 30              | 30.00    | 1.28                    |
| Arms injured.....          | 4       | 3        | 1       | 5         | 8           | 211             | 52.75    | 5.13                    |
| Backs broken.....          | 2       | 1        | 1       | 6         | 7           | 213             | 106.50   | 2.56                    |
| Backs injured.....         | 9       | 8        | 1       | 26        | 31          | 445             | 49.44    | 11.54                   |
| Bodies injured.....        | 2       | 1        | 1       | 1         | 1           | 131             | 65.50    | 2.56                    |
| Collar bone broken.....    | 1       | .....    | 1       | .....     | .....       | 42              | 42.00    | 1.28                    |
| Eye injured.....           | 1       | 1        | .....   | 2         | 3           | 77              | 77.00    | 1.28                    |
| Face and hands burned..... | 2       | 2        | .....   | 3         | 5           | 76              | 38.00    | 2.56                    |
| Face injured.....          | 1       | 1        | .....   | 5         | 5           | 30              | 30.00    | 1.28                    |
| Feet injured.....          | 11      | 7        | 4       | 20        | 20          | 612             | 68.00    | 14.11                   |
| Fingers broken.....        | 3       | 3        | .....   | 12        | 12          | 128             | 42.67    | 3.85                    |
| Fingers cut off.....       | 2       | 1        | 1       | 2         | 3           | 94              | 47.00    | 2.56                    |
| Fingers injured.....       | 5       | 1        | 4       | .....     | 1           | 209             | 52.25    | 6.42                    |
| Hands injured.....         | 4       | 4        | .....   | 15        | 15          | 199             | 49.75    | 5.13                    |
| Head injured.....          | 1       | .....    | 1       | .....     | .....       | 45              | 45.00    | 1.28                    |
| Legs broken.....           | 8       | 4        | 4       | 6         | 8           | 503             | 100.60   | 10.26                   |
| Legs injured.....          | 9       | 6        | 3       | 13        | 18          | 547             | 60.78    | 11.54                   |
| Ribs broken.....           | 2       | 2        | .....   | 10        | 10          | 159             | 79.50    | 2.56                    |
| Shoulder broken.....       | 1       | 1        | .....   | 5         | 6           | 44              | 44.00    | 1.28                    |
| Shoulder injured.....      | 1       | 1        | .....   | .....     | 1           | 76              | 76.00    | 1.28                    |
| Toes broken.....           | 2       | .....    | 2       | .....     | .....       | 120             | 60.00    | 2.56                    |
| Toes cut off.....          | 1       | 1        | .....   | 2         | 3           | 43              | 43.00    | 1.28                    |
| Total.....                 | 78      | 54       | 24      | 150       | 179         | 4,396           | 61.06    | 100.00                  |

*Grundy County—*

| Number.             | Name of operator.                        | Postoffice address of the mines. | Output of mines in tons. |         |               |         |
|---------------------|--|----------------------------------|--------------------------|---------|---------------|---------|
|                     |  |                                  | Mine run.                | Lump.   | Other grades. | Total.  |
| SHIPPING MINES.     |  |                                  |                          |         |               |         |
| 1                   | C., W. & V. Coal Co., No. 1.....         | So. Wilmington.....              |                          | 104,310 | 73,685        | 177,995 |
| 2                   | Big Four Wilm. Coal Co., No. 6.....      | Coal City.....                   | 107,299                  | 42,652  | 18,386        | 168,337 |
| 3                   | C., W. & V. Coal Co., No. 3.....         | So. Wilmington.....              |                          | 104,750 | 55,055        | 159,805 |
| 4                   | Wilmington Star Mining Co., No. 6.....   | Coal City.....                   | 21,363                   | 42,243  | 23,301        | 86,907  |
| 5                   | Big Four Wilmington Coal Co., No. 5..... | Carbon Hill.....                 | 37,830                   | 26,235  | 14,882        | 78,947  |
| 6                   | Wilmington Star Mining Co., No. 7.....   | Coal City.....                   | 764                      | 36,253  | 33,598        | 70,615  |
| Total.....          |  |                                  | 167,256                  | 356,443 | 218,907       | 742,606 |
| LOCAL MINES.        |  |                                  |                          |         |               |         |
| 1                   | Wood Coal Co.....                        | Morris.....                      |                          | 2,520   | 250           | 2,770   |
| 2                   | John Stalker.....                        | do.....                          | 2,302                    |         |               | 2,302   |
| 3                   | Jas. Bell.....                           | do.....                          |                          | 1,970   | 270           | 2,240   |
| 4                   | Clayton Bros.....                        | do.....                          |                          | 1,920   | 50            | 1,970   |
| 5                   | John Heather.....                        | do.....                          |                          | 1,350   | 150           | 1,500   |
| 6                   | William Hodson.....                      | do.....                          |                          | 1,500   |               | 1,500   |
| 7                   | Brynes & Fleming.....                    | do.....                          |                          | 1,500   |               | 1,500   |
| Total.....          |  |                                  | 2,302                    | 10,760  | 720           | 13,782  |
| Total—13 mines..... |  |                                  | 169,558                  | 367,203 | 219,627       | 756,388 |

Mines reported for 1911, 15.

Abandoned mines, 2.

Mines in 1912, 13.



## First District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 117,195                           | 60,800          | .....                                  | 194                       | 291                       | 96                   | 387    | 177,995     | .....       | .....      | 10       | Solid....                                     | .....                          | 40     | 1       |
| 159,356                           | 8,981           | 26                                     | 223                       | 320                       | 85                   | 405    | 168,337     | .....       | 1          | 2        | U. C....                                      | .....                          | 19     | 2       |
| 105,297                           | 54,508          | .....                                  | 194                       | 251                       | 56                   | 307    | 159,805     | .....       | .....      | 4        | .....   | .....                          | 18     | 3       |
| 82,516                            | 4,391           | 1,876                                  | 228                       | 137                       | 63                   | 200    | 86,907      | .....       | 1          | 2        | Both....                                      | .....                          | 16     | 4       |
| 64,831                            | 14,116          | 1,973                                  | 201                       | 163                       | 50                   | 213    | 78,947      | .....       | .....      | .....    | do....  | .....                          | 17     | 5       |
| 65,162                            | 5,453           | 1,407                                  | 228                       | 104                       | 45                   | 149    | 70,615      | .....       | 1          | 1        | do....  | .....                          | 10     | 6       |
| 594,357                           | 148,249         | 5,282                                  | 211                       | 1,266                     | 395                  | 1,661  | 742,606     | .....       | 3          | 19       | .....   | .....                          | 120    | ..      |
| .....                             | .....           | .....                                  | .....                     | .....                     | .....                | .....  | .....       | .....       | .....      | .....    | .....   | .....                          | .....  | .....   |
| .....                             | 2,770           | .....                                  | 255                       | 7                         | 1                    | 8      | 2,770       | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 2,302           | .....                                  | 216                       | 6                         | 1                    | 7      | 2,302       | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 2,240           | .....                                  | 230                       | 8                         | 1                    | 9      | 2,240       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 1,970           | .....                                  | 240                       | 4                         | 1                    | 5      | 1,970       | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 1,500           | .....                                  | 150                       | 4                         | 1                    | 5      | 1,500       | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 1,500           | .....                                  | 140                       | 9                         | 1                    | 10     | 1,500       | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 1,500           | .....                                  | 160                       | 6                         | 1                    | 7      | 1,500       | .....       | .....      | .....    | .....   | .....                          | .....  | 7       |
| .....                             | 13,782          | .....                                  | 199                       | 44                        | 7                    | 51     | 13,782      | .....       | .....      | .....    | .....   | .....                          | .....  | .....   |
| 594,357                           | 162,031         | 5,282                                  | 204                       | 1,310                     | 402                  | 1,712  | 756,388     | .....       | 3          | 19       | .....   | .....                          | 120    | .....   |

*LaSalle County—*

| Number.             | Name of operator.                    | Postoffice address of the mines. | Output of mines in tons. |         |               |           |
|---------------------|--------------------------------------|----------------------------------|--------------------------|---------|---------------|-----------|
|                     |                                      |                                  | Mine run.                | Lump.   | Other grades. | Total.    |
| SHIPPING MINES.     |                                      |                                  |                          |         |               |           |
| 1                   | Oglesby Coal Co., Oglesby.....       | Oglesby.....                     | 6,013                    | 141,713 | 58,011        | 205,737   |
| 2                   | LaSalle Co. C. C. Co., No. 5.....    | LaSalle.....                     | 519                      | 83,492  | 121,363       | 205,374   |
| 3                   | LaSalle Co. C. C. Co., No. 1.....    | do.....                          | 1,766                    | 68,401  | 98,229        | 168,396   |
| 4                   | LaSalle Co. C. C. Co., LaSalle.....  | do.....                          | 24,035                   | 58,709  | 62,535        | 145,279   |
| 5                   | C., W. & V. Coal Co., No. 3.....     | Streator.....                    | 1,438                    | 92,044  | 47,320        | 140,802   |
| 6                   | C., W. & V. Coal Co., No. 2.....     | do.....                          |                          | 48,712  | 74,266        | 122,978   |
| 7                   | LaSalle Co. C. C. Co., Union.....    | LaSalle.....                     | 1,121                    | 39,179  | 58,736        | 99,036    |
| 8                   | Illinois Zinc Co.....                | Peru.....                        | 75,585                   |         |               | 75,585    |
| 9                   | Harrison Coal Co.....                | Streator.....                    |                          | 30,203  | 44,465        | 74,668    |
| 10                  | Acme Coal Co., Acme.....             | do.....                          |                          | 31,527  | 24,787        | 56,314    |
| 11                  | Cahill Coal Co., No. 1.....          | Peru.....                        | 27,810                   | 15,270  | 6,190         | 49,270    |
| 12                  | Rutland Coal Co., Rutland.....       | Rutland.....                     | 7,907                    | 20,160  | 12,599        | 40,666    |
| 13                  | LaSalle Co. C. C. Co., Rockwell..... | LaSalle.....                     | 40                       | 3,997   | 5,650         | 9,687     |
| 14                  | Spicer Coal Co., No. 1.....          | Marseilles.....                  | 4,079                    | 3,870   | 920           | 8,869     |
| 15                  | Willfred Coal Co.....                | Seneca.....                      | 1,938                    |         |               | 1,938     |
| Total.....          |                                      |                                  | 152,251                  | 637,277 | 615,071       | 1,404,599 |
| LOCAL MINES.        |                                      |                                  |                          |         |               |           |
| 1                   | Matthiessen & Hegeler Zinc Co.....   | LaSalle.....                     | 141,090                  |         |               | 141,090   |
| 2                   | Manufacturers Coal Co.....           | Marseilles.....                  | 25,942                   |         |               | 25,942    |
| 3                   | Stohs Coal Co.....                   | Streator.....                    | 1,130                    | 3,710   | 3,710         | 8,550     |
| 4                   | Munts Coal Co.....                   | LaSalle.....                     |                          | 4,768   | 2,386         | 7,154     |
| 5                   | Wm. Francis & Co.....                | Streator.....                    | 4,719                    |         |               | 4,719     |
| 6                   | Mitchell Bros.....                   | do.....                          | 3,000                    |         |               | 3,000     |
| 7                   | Brooker Bros.....                    | Utica.....                       |                          | 2,000   | 50            | 2,050     |
| 8                   | Oscar Kimes.....                     | Streator.....                    | 43                       | 1,157   | 462           | 1,662     |
| 9                   | D. W. Hill & Co.....                 | do.....                          |                          | 1,188   | 296           | 1,484     |
| 10                  | Fred Scott.....                      | do.....                          | 500                      | 200     | 50            | 750       |
| 11                  | LaKatos & Uhrin.....                 | do.....                          | 650                      |         |               | 650       |
| 12                  | Wm. Bottomley.....                   | Utica.....                       | 632                      |         |               | 632       |
| 13                  | Wm. Lawton.....                      | Streator.....                    | 400                      | 200     |               | 600       |
| 14                  | Chas. Handee.....                    | Ottawa.....                      | 250                      | 350     |               | 600       |
| 15                  | George Steele.....                   | do.....                          | 150                      | 250     |               | 400       |
| 16                  | Ben Davis & Son.....                 | Streator.....                    | 350                      |         |               | 350       |
| 17                  | L. W. Brewer.....                    | Ottawa.....                      |                          | 215     | 50            | 265       |
| 18                  | Hurst & Howell.....                  | do.....                          | 260                      |         |               | 260       |
| 19                  | James McCullough.....                | do.....                          | 100                      | 125     | 25            | 250       |
| 20                  | John McClermon & Wear.....           | Kangley.....                     | 250                      |         |               | 250       |
| 21                  | R. H. Burgen.....                    | Ottawa.....                      | 200                      | 25      |               | 225       |
| Total.....          |                                      |                                  | 179,666                  | 14,188  | 7,029         | 200,883   |
| Total—36 mines..... |                                      |                                  | 331,917                  | 651,465 | 622,100       | 1,605,482 |

Mines reported for 1911, 31.

New mines, 5.

Mines in 1912, 36.

## First District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                         | Mules. |         |
| 186,864                           | 18,873          | .....                                  | 233                       | 301                       | 142                  | 443    | 205,737     | .....       | 1          | 7        | U. C. ....                                    | 46                              |        | 1       |
| 192,086                           | 13,288          | .....                                  | 220                       | 322                       | 118                  | 440    | 205,374     | .....       | 2          | 7        | do. ....                                      | 29                              |        | 2       |
| 154,997                           | 13,399          | .....                                  | 206                       | 303                       | 81                   | 384    | 168,396     | .....       | 1          | 3        | do. ....                                      | 50                              |        | 3       |
| 79,955                            | 65,324          | .....                                  | 230                       | 265                       | 85                   | 350    | 145,279     | .....       |            | 9        | do. ....                                      | 44                              |        | 4       |
| 134,532                           | 6,270           | 3,980                                  | 256                       | 153                       | 62                   | 215    | 140,802     | .....       |            | 8        | do. ....                                      | 20                              |        | 5       |
| 97,707                            | 25,271          | 2,310                                  | 200                       | 182                       | 77                   | 259    | 122,978     | .....       |            | 4        | do. ....                                      | 20                              |        | 6       |
| 65,353                            | 33,683          | 460                                    | 194                       | 177                       | 63                   | 240    | 99,036      | .....       |            |          | do. ....                                      | 40                              |        | 7       |
| 72,184                            | 3,401           | 3,056                                  | 267                       | 104                       | 86                   | 190    | 75,585      | .....       |            | 8        | Solid. ....                                   | 21                              |        | 8       |
| 55,763                            | 18,905          | 1,925                                  | 232                       | 120                       | 30                   | 150    | 74,668      | .....       |            |          | U. C. ....                                    | 10                              |        | 9       |
| 28,308                            | 28,006          | .....                                  | 184                       | 75                        | 35                   | 110    | 56,314      | .....       |            |          | U. C. ....                                    | 10                              |        | 10      |
| 26,580                            | 22,690          | .....                                  | 216                       | 95                        | 48                   | 143    | 49,270      | .....       |            | 3        | Solid. ....                                   | 20                              |        | 11      |
| 25,576                            | 15,090          | .....                                  | 222                       | 73                        | 30                   | 103    | 40,666      | .....       |            |          | U. C. ....                                    | 12                              |        | 12      |
| 8,882                             | 805             | .....                                  | 21                        | 143                       | 76                   | 219    | 9,687       | .....       |            |          | do. ....                                      | 16                              |        | 13      |
| 6,043                             | 2,826           | .....                                  | 145                       | 28                        | 12                   | 40     | 8,869       | .....       |            |          | do. ....                                      | 1                               |        | 14      |
| 400                               | 1,538           | .....                                  | 104                       | 16                        | 17                   | 33     | 1,938       | .....       |            |          | do. ....                                      | 2                               |        | 15      |
| 1,135,230                         | 269,369         | 11,731                                 | 197                       | 2,357                     | 962                  | 3,319  | 1,404,599   | .....       | 4          | 49       |   |                                 | 341    |         |
| .....                             | 141,090         | 6,204                                  | 297                       | 86                        | 36                   | 122    | 41,090      | .....       |            | 3        |   |                                 |        | 1       |
| .....                             | 25,942          | .....                                  | 198                       | 60                        | 20                   | 80     | 25,942      | .....       |            |          |   |                                 |        | 2       |
| .....                             | 8,550           | .....                                  | 113                       | 20                        | 8                    | 28     | 8,550       | .....       |            |          |   |                                 |        | 3       |
| .....                             | 7,154           | 265                                    | 175                       | 20                        | 10                   | 30     | 7,154       | .....       |            |          |   |                                 |        | 4       |
| .....                             | 4,719           | 142                                    | 150                       | 8                         | 2                    | 10     | 4,719       | .....       |            |          |   |                                 |        | 5       |
| .....                             | 3,000           | 5                                      | 295                       | 3                         | 1                    | 4      | 3,000       | .....       |            |          |   |                                 |        | 6       |
| .....                             | 2,050           | 50                                     | 275                       | 6                         | 2                    | 8      | 2,050       | .....       |            |          |   |                                 |        | 7       |
| .....                             | 1,662           | .....                                  | 180                       | 4                         | 1                    | 5      | 1,660       | .....       |            |          |   |                                 |        | 8       |
| .....                             | 1,484           | 20                                     | 200                       | 3                         | 1                    | 4      | 1,484       | .....       |            |          |   |                                 |        | 9       |
| .....                             | 750             | 50                                     | 200                       | 3                         | .....                | 3      | 752         | .....       |            |          |   |                                 |        | 10      |
| .....                             | 650             | 12                                     | 160                       | 3                         | .....                | 3      | 650         | .....       |            |          |   |                                 |        | 11      |
| .....                             | 632             | 3                                      | 158                       | 2                         | 1                    | 3      | 632         | .....       |            |          |   |                                 |        | 12      |
| .....                             | 600             | 8                                      | 125                       | 2                         | .....                | 2      | 600         | .....       |            |          |   |                                 |        | 13      |
| .....                             | 600             | .....                                  | 109                       | 3                         | .....                | 3      | 600         | .....       |            |          |   |                                 |        | 14      |
| .....                             | 400             | .....                                  | 125                       | 2                         | .....                | 2      | 400         | .....       |            |          |   |                                 |        | 15      |
| .....                             | 350             | .....                                  | 125                       | 3                         | 1                    | 4      | 350         | .....       |            |          |   |                                 |        | 16      |
| .....                             | 265             | .....                                  | 95                        | 2                         | .....                | 2      | 265         | .....       |            |          |   |                                 |        | 17      |
| .....                             | 260             | .....                                  | 115                       | 2                         | .....                | 2      | 260         | .....       |            |          |   |                                 |        | 18      |
| .....                             | 250             | .....                                  | 90                        | 2                         | .....                | 2      | 250         | .....       |            |          |   |                                 |        | 19      |
| .....                             | 250             | .....                                  | 180                       | 2                         | .....                | 2      | 250         | .....       |            |          |   |                                 |        | 20      |
| .....                             | 225             | .....                                  | 115                       | 2                         | .....                | 2      | 225         | .....       |            |          |   |                                 |        | 21      |
| .....                             | 200,883         | 6,759                                  | 165                       | 238                       | 83                   | 321    | 200,883     | .....       |            | 3        |   |                                 |        |         |
| 1,135,230                         | 470,252         | 18,490                                 | 175                       | 2,595                     | 962                  | 3,640  | 1,605,482   | .....       | 4          | 52       |   |                                 |        |         |

*Livingston County—*

| Number.             | Name of operator.                 | Postoffice address of the mines. | Output of mines in tons. |         |               |         |
|---------------------|-----------------------------------|----------------------------------|--------------------------|---------|---------------|---------|
|                     |                                   |                                  | Mine run.                | Lump.   | Other grades. | Total.  |
| SHIPPING MINES.     |                                   |                                  |                          |         |               |         |
| 1                   | Fairbury Coal Co., W. M. ....     | Fairbury. ....                   | 19, 231                  | 1, 918  | 8, 533        | 29, 682 |
| LOCAL MINES.        |                                   |                                  |                          |         |               |         |
| 1                   | Fairbury Miners Corp. C. Co. .... | Fairbury. ....                   | 3, 415                   | 4, 634  | 5, 976        | 14, 025 |
| 2                   | Streator Clay Mfg. Co. ....       | Streator. ....                   | 13, 600                  |         |               | 13, 600 |
| 3                   | Cardiff Coal Co. ....             | Cardiff. ....                    | 5, 309                   |         |               | 5, 309  |
| 4                   | Brady Coal Co. ....               | Pontiac. ....                    | 2, 267                   | 1, 000  |               | 3, 267  |
| 5                   | Ed. E. Evans. ....                | Streator. ....                   |                          | 2, 400  | 800           | 3, 200  |
| 6                   | Streator Aqueduct Co. ....        | do. ....                         | 2, 221                   |         |               | 2, 221  |
| 7                   | W. J. McMillen. ....              | do. ....                         | 241                      | 75      | 65            | 381     |
| Total. ....         |                                   |                                  | 27, 053                  | 8, 109  | 6, 841        | 42, 003 |
| Total—8 mines. .... |                                   |                                  | 46, 284                  | 10, 027 | 15, 374       | 71, 685 |

Mines reported for 1911, 8.

New mines, 1.

Abandoned mines, 1.

Mines in 1912, 8

*First District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 4,793                             | 24,889          | 1,400                                  | 216                       | 30                        | 15                   | 45     | 29,682      | .....       | .....      | .....    | Solid...                                      | .....                          | .....  | 2 1     |
| .....                             | 14,025          | 897                                    | 225                       | 12                        | 9                    | 21     | 14,025      | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 13,600          | 225                                    | 343                       | 14                        | 12                   | 26     | 6,800       | 6,800       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 5,309           | .....                                  | 114                       | 19                        | 13                   | 32     | 5,309       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 3,267           | 178                                    | 160                       | 10                        | 2                    | 12     | 3,267       | .....       | 1          | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 3,200           | 250                                    | 250                       | 6                         | 2                    | 8      | 3,200       | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 2,221           | 32                                     | 201                       | 4                         | 1                    | 5      | 2,221       | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 381             | .....                                  | 126                       | 4                         | 2                    | 6      | 381         | .....       | .....      | .....    | .....   | .....                          | .....  | 7       |
| .....                             | 42,003          | 1,582                                  | 203                       | 69                        | 41                   | 110    | 35,203      | 6,800       | 1          | .....    | .....   | .....                          | .....  | .....   |
| 4,793                             | 66,892          | 2,982                                  | 204                       | 99                        | 56                   | 155    | 64,885      | 6,800       | 1          | .....    | .....   | .....                          | .....  | 2       |

*Will County—*

| Number.            | Name of operator.                       | Postoffice address of the mines. | Output of mines in tons. |        |               |         |
|--------------------|---|----------------------------------|--------------------------|--------|---------------|---------|
|                    |   |                                  | Mine run.                | Lump.  | Other grades. | Total.  |
| SHIPPING MINES.    |   |                                  |                          |        |               |         |
| 1                  | Wilm. Coal Mining Mfg. Co., No. 6.....  | Torino.....                      | 102,662                  |        |               | 102,662 |
| 2                  | Murphy, Linskey & Kasher C. Co., No. 4. | Braidwood.....                   | 6,287                    | 37,884 | 27,610        | 71,781  |
| Total.....         |   |                                  | 108,949                  | 37,884 | 27,610        | 174,443 |
| LOCAL MINES.       |   |                                  |                          |        |               |         |
| 1                  | Oswald & Young.....                     | Braidwood.....                   | 4,558                    |        |               | 4,558   |
| Total—3 mines..... |   |                                  | 113,507                  | 37,884 | 27,610        | 179,001 |

Mines reported for 1911, 3.

Mines in 1912, 3.

*Shipping mines—recapitulation by*

| Counties.      | Number of mines. | Productions of different grades in tons. |           |         |        |         |         | Total.    | Disposition of out-put—tons. |                 |
|----------------|------------------|--|-----------|---------|--------|---------|---------|-----------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.     | Eggs.   | Nut.   | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Grundy.....    | 6                | 167,256                                  | 356,443   | 36,017  | .....  | 162,299 | 20,591  | 742,606   | 594,357                      | 148,249         |
| LaSalle.....   | 15               | 152,251                                  | 637,277   | 280,849 | 17,123 | 239,201 | 77,898  | 1,404,599 | 1,135,230                    | 269,369         |
| Livingston.... | 1                | 19,231                                   | 1,918     | .....   | 511    | 975     | 7,047   | 29,682    | 4,793                        | 24,889          |
| Will.....      | 2                | 108,949                                  | 37,884    | .....   | 5,855  | 20,655  | 1,100   | 174,443   | 158,423                      | 16,020          |
| Total.....     | 24               | 447,687                                  | 1,033,522 | 316,860 | 23,489 | 423,130 | 106,636 | 2,351,330 | 1,892,803                    | 458,527         |

*First District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 93,844                            | 8,818           | .....                                  | 219                       | 195                       | 55                   | 250    | 102,662     | .....       | .....      | 4        | Solid...                                      | .....                          | 30     | 1       |
| 64,579                            | 7,202           | .....                                  | 218                       | 130                       | 32                   | 162    | 71,781      | .....       | .....      | 3        | do....  | .....                          | 11     | 2       |
| 158,423                           | 16,020          | .....                                  | 219                       | 325                       | 87                   | 412    | 174,443     | .....       | .....      | 7        | .....   | .....                          | .....  | .....   |
| .....                             | .....           | .....                                  | 196                       | 15                        | 2                    | 17     | 4,558       | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| 158,423                           | 16,020          | .....                                  | 211                       | 340                       | 89                   | 429    | 179,001     | .....       | .....      | 7        | .....   | .....                          | .....  | .....   |

*counties—First District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal    |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 5,282                                  | 211                       | 1,266        | 255     | 30    | 110               | 1,661  | 742,606     | .....       | 177,995          | 168,337        | 396,274            |
| 11,731                                 | 197                       | 2,357        | 560     | 63    | 339               | 3,319  | 1,404,599   | .....       | 124,855          | 1,279,744      | .....              |
| 1,400                                  | 216                       | 30           | 9       | ..... | 6                 | 45     | 29,682      | .....       | 29,682           | .....          | .....              |
| .....                                  | 219                       | 325          | 58      | ..... | 29                | 412    | 174,443     | .....       | 174,443          | .....          | .....              |
| 18,413                                 | 202                       | 3,978        | 882     | 93    | 484               | 5,437  | 2,351,330   | .....       | 506,975          | 1,448,081      | 396,274            |

*Local mines—recapitulation by*

| Counties.       | Number of mines. | Productions of different grades in tons |           |         |        |         |         | Total.    | Disposition of output—tons.  |                 |
|-----------------|------------------|---|-----------|---------|--------|---------|---------|-----------|------------------------------|-----------------|
|                 |                  | Mine run.                               | Lump.     | Egg.    | Nut.   | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Grundy.....     | 7                | 2,302                                   | 10,760    | 720     | .....  | .....   | .....   | 13,782    | .....                        | 13,782          |
| LaSalle.....    | 21               | 179,666                                 | 14,188    | .....   | .....  | .....   | 7,029   | 200,883   | .....                        | 200,883         |
| Livingston....  | 7                | 27,053                                  | 8,109     | 65      | 6,776  | .....   | .....   | 42,003    | .....                        | 42,003          |
| Will.....       | 1                | 4,558                                   | .....     | .....   | .....  | .....   | .....   | 4,558     | .....                        | 4,558           |
| Total.....      | 36               | 213,579                                 | 33,057    | 785     | 6,776  | .....   | 7,029   | 261,226   | .....                        | 261,226         |
| The District... | 60               | 661,266                                 | 1,066,579 | 317,651 | 30,265 | 423,130 | 113,665 | 2,612,556 | 1,892,803                    | 719,753         |

Whole number of mines reported for 1911, 57.

Number of new mines opened during the year, 6.

Number of mines abandoned during the year, 3.

Whole number of mines reported for 1912, 60.

*All mines—recapitulation by*

| Counties.      | Number of mines. | Productions of different grades in tons. |           |         |        |         |         | Total.    | Disposition of output—tons.  |                 |
|----------------|------------------|--|-----------|---------|--------|---------|---------|-----------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.     | Egg.    | Nut.   | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Grundy.....    | 13               | 169,558                                  | 367,203   | 36,737  | .....  | 162,299 | 20,591  | 756,388   | 594,357                      | 162,031         |
| LaSalle.....   | 36               | 331,917                                  | 651,465   | 280,849 | 17,123 | 239,201 | 84,927  | 1,605,482 | 1,135,230                    | 470,252         |
| Livingston.... | 8                | 46,284                                   | 10,027    | 65      | 7,287  | 975     | 7,047   | 71,685    | 4,793                        | 66,892          |
| Will.....      | 3                | 113,507                                  | 37,884    | .....   | 5,855  | 20,655  | 1,100   | 179,001   | 158,423                      | 20,578          |
| Total.....     | 60               | 661,266                                  | 1,066,579 | 317,651 | 30,265 | 423,130 | 113,665 | 2,612,556 | 1,892,803                    | 719,753         |



counties—First District—1912.

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal    |                |                   |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|-------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons |
|  |                           | Miners       | Others. | Boys. |                   |        |             |             |                  |                |                   |
| .....                                  | 199                       | 44           | .....   | ..... | 7                 | 51     | 13,782      | .....       | .....            | .....          | .....             |
| 6,759                                  | 165                       | 238          | 25      | 9     | 49                | 321    | 200,883     | .....       | .....            | .....          | .....             |
| 1,582                                  | 203                       | 69           | 17      | ..... | 24                | 110    | 35,203      | 6,800       | .....            | .....          | .....             |
| .....                                  | 196                       | 15           | .....   | ..... | 2                 | 17     | 4,558       | .....       | .....            | .....          | .....             |
| 8,341                                  | 196                       | 366          | 42      | 9     | 82                | 499    | 254,426     | 6,800       | .....            | .....          | .....             |
| 26,754                                 | 189                       | 4,344        | 924     | 1,021 | 566               | 5,936  | 2,605,756   | 6,800       | .....            | .....          | .....             |

counties—First District—1912.

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 5,282                                  | 204                       | 1,310        | 255     | 30    | 117               | 1,712  | 756,388     | .....       | .....            | .....          | .....              |
| 18,490                                 | 175                       | 2,595        | 585     | 72    | 388               | 3,640  | 1,605,482   | .....       | .....            | .....          | .....              |
| 2,982                                  | 204                       | 99           | 26      | ..... | 30                | 155    | 64,885      | 6,800       | .....            | .....          | .....              |
| .....                                  | 211                       | 340          | 58      | ..... | 31                | 429    | 179,001     | .....       | .....            | .....          | .....              |
| 26,754                                 | 180                       | 4,344        | 924     | 102   | 566               | 5,936  | 2,605,756   | 6,800       | .....            | .....          | .....              |

## SECOND INSPECTION DISTRICT—1912.

### ANNUAL REPORT.

Counties—Bureau, Henry, Knox, Mercer, Rock Island, Stark, Warren.

THOMAS HUDSON, *Inspector*, Galva.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Bureau, Henry, Knox, Mercer, Rock Island, Stark and Warren.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|   |           |
|---|-----------|
| Number of counties producing coal.....                | 7         |
| Number of shipping mines.....                         | 13        |
| Number of local mines.....                            | 92        |
| Number of new or reopened mines.....                  | 17        |
| Number of closed or abandoned mines.....              | 20        |
| Number of miners.....                                 | 3,731     |
| Others underground, men.....                          | 817       |
| Boys underground.....                                 | 122       |
| Boys above ground.....                                | 1         |
| Others above ground.....                              | 417       |
| Total number of employees.....                        | 5,088     |
| Total tons of coal produced.....                      | 2,250,393 |
| Days of active operation, all mines.....              | 152       |
| Kegs of powder used for blasting coal.....            | 26,348    |
| Tons of coal shipped.....                             | 1,874,232 |
| Tons supplied to locomotives.....                     | 32,424    |
| Tons sold to local trade.....                         | 239,560   |
| Tons consumed and wasted at the mines.....            | 104,177   |
| Number of fatal accidents.....                        | 6         |
| Number of non-fatal accidents.....                    | 88        |
| Number of employees to each fatal accident.....       | 848       |
| Number of employees to each non-fatal accident.....   | 58        |
| Tons of coal produced to each fatal accident.....     | 375,066   |
| Tons of coal produced to each non-fatal accident..... | 25,573    |
| Ratio of fatal accidents per 1,000 employees.....     | 1.18      |

The coal production of this district for the years ended June 30, 1911 and 1912, is shown by counties in the following table:

| Counties.         | Total output—tons. |           | Increase. | Decrease. |
|-------------------|--------------------|-----------|-----------|-----------|
|                   | 1911.              | 1912.     |           |           |
| Bureau.....       | 1,234,121          | 1,681,103 | 446,982   |           |
| Henry.....        | 135,811            | 87,171    |           | 48,640    |
| Knox.....         | 45,245             | 34,517    |           | 10,728    |
| Mercer.....       | 261,355            | 334,662   | 73,307    |           |
| Rock Island.....  | 76,660             | 71,696    |           | 4,964     |
| Stark.....        | 31,330             | 32,746    | 1,416     |           |
| Warren.....       | 12,631             | 8,498     |           | 4,133     |
| Total.....        | 1,797,153          | 2,250,393 | 521,705   | 68,465    |
| Net increase..... |                    |           | 453,240   |           |

## NEW AND ABANDONED MINES.

Seventeen new or reopened mines and twenty abandoned is the record for this year. All of the former are local mines and one shipping and nineteen local mines have been abandoned.

## PROSPECTIVE.

Not much change can be expected in the coal production of the second district the coming year.

A slope is being put in to develop a small acreage of known workable coal. The product of the mine will be consumed at the electric power plant of Rock Island Southern Railway Co., on Edwards River. The mine and power plant are quite close together.

The mine operated by the Kewanee Coal Company at Kewanee, Henry Co., has not resumed active operations since the suspension April 1. The mine is practically worked out, about 15,000 tons in pillars remain. The mine is being kept open, and operated in a limited way for local trade. The coming winter will in all probability see this mine worked out and abandoned.

I have had the assistance and coöperation of county mine inspectors in Bureau, Henry, Knox, Mercer, Stark and Warren counties. Their principal work has been the care and inspection of the local mines in their respective counties.

## FATAL ACCIDENTS.

July 24, 1911, George Weberski, miner, aged 33 years, married, employed at the No. 3 mine of the Spring Valley Coal Co., Spring Valley, Bureau County, was killed by a fall of coal. He leaves a widow and five children.

August 18, 1911, Thomas Armstrong, miner, aged 33 years, married, was killed by a fall of slate at his working place in the mine of T. H. Milan Bros., Soperville, Knox County. He leaves a widow.

September 12, 1911, Edward Donovan, laborer, aged 51 years, married, was run over and killed by pit-cars in the Marquette Third Vein Coal Company's mine, Marquette, Bureau County. He leaves a widow.

January 22, 1912, Hezekiah Taylor, miner, aged 57 years, married, was instantly killed by a fall of rock at his working place in the Andrews Coal Co.'s mine, Wyoming, Stark County. He leaves a widow and two children.

March 5, 1912, Andrew Johnson, timberman, aged 43 years, married, employed at the No. 2 mine of the Kewanee Coal Co., was crushed between two railroad cars, from the effects of which he died in the hospital at Kewanee about two hours after the accident. He leaves a widow and two children.

March 18, 1912, Charles Sass, driver, aged 22 years, single, employed at the Coal Valley Mining Co.'s No. 3 mine, was killed. The exact cause of his death is not definitely known, but it is supposed he was kicked by a mule.

Respectfully submitted,

THOMAS HUDSON,

*State Inspector of Mines, Second District, Galva, Ill.*

*Fatal casualties—Second District—June 30, 1912.*

| Date.    | Name.                | Age. | Occupation.    | Residence.        | Married. | Single. | Widow. | Children. | Dependents | Cause of death.     |
|----------|----------------------|------|----------------|-------------------|----------|---------|--------|-----------|------------|---------------------|
| 1911.    |                      |      |                |                   |          |         |        |           |            |                     |
| July 24  | George Weberski..... | 33   | Miner.....     | Spring Valley..   | 1        | ..      | 1      | 5         | 6          | Falling coal.....   |
| Aug. 18  | Thos. Armstrong..... | 33   | do.....        | Soperville.....   | 1        | ..      | 1      | ..        | 1          | Falling slate.....  |
| Sept. 12 | Edward Donovan.....  | 51   | Laborer.....   | Marquette.....    | 1        | ..      | 1      | ..        | 1          | Pit cars.....       |
| 1912.    |                      |      |                |                   |          |         |        |           |            |                     |
| Jan. 22  | Hezekiah Saylor..... | 57   | Miner.....     | Wyoming.....      | 1        | ..      | 1      | 5         | 3          | Falling rock.....   |
| Mar. 5   | Andrew Johnson.....  | 43   | Timberman..... | Kewanee.....      | 1        | ..      | 1      | 2         | 3          | Railroad cars.....  |
| 18       | Charles Sass.....    | 22   | Driver.....    | Mathersville..... | ..       | 1       | ..     | ..        | ..         | Kicked by mule..... |
|          | Total.....           |      |                |                   | 5        | 1       | 5      | 12        | 14         |                     |

*Recapitulation of fatal casualties—Second District—1912.*

| Residence.        | No. | Occupation.    | No. | Cause of accident.  | No. | Colliery.               | No. |
|-------------------|-----|----------------|-----|---------------------|-----|-------------------------|-----|
| Kewanee.....      | 1   | Driver.....    | 1   | Falling coal.....   | 1   | Andrews.....            | 1   |
| Marquette.....    | 1   | Laborer.....   | 1   | Falling rock.....   | 1   | Coal Valley.....        | 1   |
| Mathersville..... | 1   | Miners.....    | 3   | Falling slate.....  | 1   | Kewanee.....            | 1   |
| Soperville.....   | 1   | Timberman..... | 1   | Kicked by mule..... | 1   | Marquette 3d Vein.....  | 1   |
| Spring Valley.... | 1   |                |     | Pit cars.....       | 1   | Milan, T. H.....        | 1   |
| Wyoming.....      | 1   |                |     | Railroad cars.....  | 1   | Springfield Valley..... | 1   |
| Total.....        | 6   |                | 6   |                     | 6   |                         | 6   |

## Non-fatal casualties—Second District—June 30, 1912.

| Date.   | Name.                     | Residence.          | Age. | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|---------|---------------------------|---------------------|------|----------|---------|-----------|-------------|--|-----------------|
| 1911.   |                           |                     |      |          |         |           |             |  |                 |
| July 15 | James Lynch.....          | 20 Spring Valley..  | 1    | 1        |         |           |             | Foot injured, pit car.....                 | 31              |
| 15      | Dom. Jackson.....         | 40 Seatonville..... | 1    | 1        |         |           |             | Jaw and ribs broken, falling roof.....     | 136             |
| 17      | John Podavitch.....       | 30 Spring Valley..  | 1    | 3        | 4       |           |             | Body injured, pit cars.....                | 81              |
| 20      | David Hutchinson..        | 53 Cherry.....      | 1    | 2        | 3       |           |             | Body injured, falling roof.....            | 125             |
| 28      | Anton Petkus.....         | 45 Spring Valley..  | 1    | 2        | 3       |           |             | Head injured, falling roof.....            | *               |
| 31      | John Raisbeck.....        | 50 Cable.....       | 1    | 4        | 5       |           |             | Back injured, falling roof.....            | 49              |
| Aug. 1  | Pete Budavitch.....       | 50 Spring Valley..  | 1    | 1        |         |           |             | Ankle injured, falling coal.....           | 40              |
| 7       | S. F. Grear.....          | 55 Sherrard.....    | 1    | 3        | 4       |           |             | Collar bone broken, falling roof.....      | 68              |
| 9       | Frank Voglinski....       | 48 Spring Valley..  | 1    | 4        | 5       |           |             | Leg injured, pit car.....                  | 39              |
| 21      | Luigi Sabitana.....       | 47 do.....          | 1    | 2        | 3       |           |             | Rib broken, falling roof.....              | 49              |
| 23      | John Maddis.....          | 37 do.....          | 1    | 1        |         |           |             | Finger injured, falling roof.....          | 30              |
| Sept. 2 | Dom. Coller.....          | 30 do.....          | 1    | 1        |         |           |             | Back injured, falling roof.....            | 30              |
| 5       | Modiste Mantino....       | 24 Seatonville..... | 1    | 1        |         |           |             | Hand injured, falling coal.....            | 33              |
| 12      | Angelo Braghina....       | 38 Spring Valley..  | 1    | 1        | 2       |           |             | Leg broken, falling coal.....              | 42              |
| 12      | Cass Hubert.....          | 23 Seatonville..... | 1    | 1        |         |           |             | Foot injured, falling roof.....            | 40              |
| 13      | Frank Salimini.....       | 33 Cherry.....      | 1    | 4        | 5       |           |             | Arm injured, falling roof.....             | 33              |
| 19      | John Dutskus.....         | 38 Spring Valley..  | 1    | 3        | 4       |           |             | Leg broken, falling roof.....              | 139             |
| 19      | Pete Annotti.....         | 39 do.....          | 1    | 3        | 4       |           |             | Back injured, falling coal.....            | 130             |
| 19      | Dom. Vitzoski.....        | 35 do.....          | 1    | 1        | 1       |           |             | Leg injured, falling coal.....             | 30              |
| 22      | John Coshinas.....        | 40 do.....          | 1    | 1        |         |           |             | Leg injured, pit car.....                  | 35              |
| 24      | Carlo Dezuti.....         | 45 do.....          | 1    | 5        | 6       |           |             | Finger injured, falling coal.....          | 143             |
| 21      | P. Doyle.....             | 40 Marquette.....   | 1    | 1        |         |           |             | Body injured, pit car.....                 | 80              |
| 27      | Wm. Yondiblus.....        | 30 Spring Valley..  | 1    | 3        | 4       |           |             | Leg injured, pit car.....                  | 54              |
| 27      | Anton Sarrugga.....       | 26 Dalzell.....     | 1    | 1        | 1       |           |             | Head injured, falling coal.....            | 49              |
| Oct. 2  | Frank Pascoe.....         | 27 Sherrard.....    | 1    | 2        | 3       |           |             | Leg broken, falling roof.....              | 94              |
| 11      | Nels. P. Schultz....      | 50 Spring Valley..  | 1    | 1        | 2       |           |             | Leg broken, falling coal.....              | *               |
| 17      | Wm. McConnell.....        | 40 Marquette.....   | 1    | 1        | 2       |           |             | Collar bone broken, falling coal.....      | 60              |
| 17      | Joe. Stephen.....         | 35 Spring Valley..  | 1    | 4        | 5       |           |             | Foot injured, falling roof.....            | 30              |
| Nov. 2  | Mike Kavoloski....        | 23 do.....          | 1    | 1        | 2       |           |             | Back injured, falling roof.....            | *               |
| 14      | Chas. Wells.....          | 29 Marquette.....   | 1    | 1        |         |           |             | Leg broken, falling coal.....              | *               |
| 20      | Alex. Coszita.....        | 40 Dalzell.....     | 1    | 4        | 5       |           |             | Leg broken, falling coal.....              | 182             |
| 24      | Louis Remis.....          | 25 Spring Valley..  | 1    | 1        |         |           |             | Leg injured, falling roof.....             | 60              |
| 25      | Louis Luritto.....        | 18 do.....          | 1    | 1        |         |           |             | Leg broken, falling coal.....              | 93              |
| Dec. 2  | George Hawton.....        | 22 Viola.....       | 1    | 1        |         |           |             | Hand injured, R. R. car.....               | 60              |
| 2       | James Farrari.....        | 26 Cherry.....      | 1    | 3        | 4       |           |             | Leg broken, pit car.....                   | 150             |
| 10      | Chas. Kaminski.....       | 48 do.....          | 1    | 7        | 8       |           |             | Leg broken, falling roof.....              | *               |
| 11      | Hugh Lennehan.....        | 18 Spring Valley..  | 1    | 1        |         |           |             | Finger injured, tail chain.....            | 35              |
| 13      | James Caveglia.....       | 46 do.....          | 1    | 5        | 6       |           |             | Finger injured, falling coal.....          | 35              |
| 14      | Stinie Yankowiski..       | 41 Seatonville..... | 1    | 1        | 1       |           |             | Leg injured, falling roof.....             | 86              |
| 18      | Anton Kruger.....         | 59 Spring Valley..  | 1    | 6        | 6       |           |             | Foot injured, fell from ladder.....        | 69              |
| 20      | John Coon.....            | 68 Coal Valley..... | 1    | 1        | 1       |           |             | Hand injured, falling coal.....            | 60              |
| 21      | Henry Hamlin.....         | 49 Spring Valley..  | 1    | 1        |         |           |             | Collar bone broken, falling coal.....      | *               |
| 21      | Tim Sullivan.....         | 35 do.....          | 1    | 1        | 1       |           |             | Finger broken, falling coal.....           | *               |
| 27      | Chas. Bush.....           | 39 do.....          | 1    | 5        | 6       |           |             | Back injured, falling coal.....            | 70              |
| 1912    |                           |                     |      |          |         |           |             |  |                 |
| Jan. 11 | Alfred Zinn.....          | 50 Wyoming.....     | 1    | 3        | 4       |           |             | Arm broken, fell down stairs.....          | 63              |
| 13      | Stinie Kasper.....        | 30 Spring Valley..  | 1    | 1        |         |           |             | Back injured, falling roof.....            | 49              |
| 15      | Ed. Grossman.....         | 29 do.....          | 1    | 1        |         |           |             | Arm broken, coal fell down shaft.....      | 43              |
| 16      | Moranda Louie.....        | 28 Dalzell.....     | 1    | 1        | 1       |           |             | Back injured, falling coal.....            | 48              |
| 16      | Andrew Prossio.....       | 58 Seatonville..... | 1    | 1        |         |           |             | Hand injured, falling roof.....            | 39              |
| 22      | Barni Spagnol.....        | 47 Spring Valley..  | 1    | 2        | 3       |           |             | Shoulder injured, falling coal.....        | 39              |
| 26      | A. Noskis.....            | 40 Marquette.....   | 1    | 2        | 3       |           |             | Leg injured, pit car.....                  | 90              |
| Feb. 1  | Herman Weingartz, Sr..... | 50 Kewanee.....     | 1    | 1        | 2       |           |             | Body injured, falling coal.....            | *               |
| 5       | Herman Weingartz, Jr..... | 19 do.....          | 1    | 1        |         |           |             | Ribs broken, pit car.....                  | 35              |
| 14      | Wm. Meadowcroft..         | 25 Marquette.....   | 1    | 3        | 4       |           |             | Toes broken, falling roof.....             | 60              |
| 16      | Joe Gueriba.....          | 22 Spring Valley..  | 1    | 1        |         |           |             | Body injured, falling coal.....            | 30              |
| 19      | Peter Lauer.....          | 17 do.....          | 1    | 1        |         |           |             | Back injured, pit car.....                 | 116             |

*Non-fatal casualties—Second District—Concluded.*

| Date. | Name.                     | Residence.            | Age. | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|-------|---------------------------|-----------------------|------|----------|---------|-----------|-------------|--|-----------------|
| 1912  |                           |                       |      |          |         |           |             |  |                 |
| Mar.  | 5 A. Edgerton.....        | 19 Marquette.....     | 1    |          |         |           |             | Hand injured, falling roof.....            | 35              |
|       | 6 Chas Clabanis.....      | 23 Spring Valley..... | 1    |          |         |           |             | Foot injured, pit car.....                 | 55              |
|       | 7 James Clinton.....      | 26 ..do.....          | 1    |          |         |           |             | Back injured, pit car.....                 | 59              |
|       | 9 Vincent Roberto.....    | 26 Cherry.....        | 1    |          |         |           |             | Leg broken, falling roof.....              | *               |
|       | 11 B. Musailis.....       | 22 Spring Valley..... | 1    |          |         |           |             | Back injured, pit car.....                 | 50              |
|       | 11 John Orlanda.....      | 42 Dalzell.....       | 1    | 2        | 3       |           |             | Foot injured, struck by pick.....          | 50              |
|       | 12 John Drazon.....       | 33 Spring Valley..... | 1    | 5        | 6       |           |             | Leg broken, falling coal.....              | *               |
|       | 12 Wm. Houzze.....        | 32 Seatonville.....   | 1    | 3        | 4       |           |             | Shoulder injured, pit car.....             | *               |
|       | 14 J. F. Carso.....       | 30 Marquette.....     | 1    |          |         |           |             | Collar bone broken, falling coal.....      | 60              |
|       | 14 A. Patrick.....        | 50 ..do.....          | 1    | 1        | 2       |           |             | Leg broken, falling coal.....              | *               |
|       | 18 Anton Scorski.....     | 45 Spring Valley..... | 1    | 2        | 3       |           |             | Head injured, falling roof.....            | 43              |
|       | 20 F. Pettino.....        | 47 ..do.....          | 1    | 4        | 5       |           |             | Shoulder injured, falling coal.....        | *               |
|       | 23 Joe. Oxtites.....      | 36 ..do.....          | 1    | 1        | 2       |           |             | Back injured, falling roof.....            | 69              |
|       | 27 Albert Olson.....      | 20 Seatonville.....   | 1    |          |         |           |             | Foot injured, pit car.....                 | 33              |
|       | 28 John Burgone.....      | 27 ..do.....          | 1    |          |         |           |             | Leg injured, falling coal.....             | 34              |
| May   | 1 Joe Barnabie.....       | 46 Dalzell.....       | 1    | 5        | 5       |           |             | Back injured, pit car.....                 | *               |
|       | 7 Wm. Myers.....          | 50 Hollowayville..... | 1    | 2        | 3       |           |             | Leg injured, falling roof.....             | *               |
|       | 11 Luigi Romanelli.....   | 48 Dalzell.....       | 1    |          |         |           |             | Arm broken, falling roof.....              | *               |
|       | 13 Joe Fenoglio.....      | 35 Seatonville.....   | 1    |          |         |           |             | Leg injured, pit car.....                  | *               |
|       | 21 Fortune Salmont.....   | 44 Seatonville.....   | 1    |          |         |           |             | Ankle injured, falling roof.....           | *               |
|       | 24 Anton Yosis.....       | 38 Spring Valley..... | 1    |          |         |           |             | Ankle injured, falling coal.....           | *               |
|       | 25 James Vitton.....      | 19 Seatonville.....   | 1    |          |         |           |             | Leg broken, falling coal.....              | *               |
|       | 28 Joe Ferrari.....       | 36 Ladd.....          | 1    | 4        | 5       |           |             | Foot injured, falling coal.....            | 33              |
| June  | 7 John Galletti.....      | 52 Spring Valley..... | 1    |          |         |           |             | Arm broken, fell down.....                 | *               |
|       | 14 Wm. Yondbulis.....     | 31 Cherry.....        | 1    | 4        | 5       |           |             | Arm injured, kicked by mule.....           | *               |
|       | 15 Andrew Runnan.....     | 26 ..do.....          | 1    |          |         |           |             | Back injured, falling roof.....            | *               |
|       | 15 Wm. Ruskie.....        | 38 Seatonville.....   | 1    |          |         |           |             | Foot injured, falling roof.....            | 30              |
|       | 17 Caesar Baruffi.....    | 54 Dalzell.....       | 1    | 6        | 7       |           |             | Arm injured, falling coal.....             | *               |
|       | 20 Frank Stanashoski..... | 45 Spring Valley..... | 1    | 4        | 5       |           |             | Ribs broken, pit car.....                  | *               |
|       | 24 E. Blanch.....         | 50 Seatonville.....   | 1    | 6        | 6       |           |             | Jaw broken, falling coal.....              | *               |
|       | 27 Chas. McCook.....      | 27 Spring Valley..... | 1    | 2        | 3       |           |             | Nose broken, kicked by mule.....           | *               |
|       | 28 Jas Perona.....        | 37 ..do.....          | 1    |          |         |           |             | Foot injured, falling coal.....            | *               |
|       | Total.....                |                       |      | 51       | 37      | 141       | 188         |  |                 |

\* Not returned to work.

Total number of men injured..... 88  
 Not returned to work July 1, 1912..... 28

Number returned to work..... 60

Total time lost by men returned to work—days..... 3,733  
 Average days lost..... 62.22

*Recapitulation of non-fatal casualties—Second District—1912.*

| Residence.         | No. | Occupation.    | No. | Cause of accident.     | No. | Colliery.              | No. |
|--------------------|-----|----------------|-----|------------------------|-----|------------------------|-----|
| Cable.....         | 1   | Cager.....     | 1   | Coal fell down shaft.. | 1   | Alden.....             | 1   |
| Cherry.....        | 7   | Drivers.....   | 16  | Falling coal.....      | 31  | Andrews.....           | 1   |
| Coal Valley.....   | 1   | Laborers.....  | 8   | Falling roof.....      | 30  | Coal Valley.....       | 3   |
| Dalzell.....       | 7   | Miners.....    | 59  | Fell down.....         | 1   | Ill. 3d Vein.....      | 1   |
| Hollowayville..... | 1   | Motorman.....  | 1   | Fell down stairs.....  | 1   | Kewanee.....           | 2   |
| Kewanee.....       | 2   | Timbermen..... | 2   | Fell off ladder.....   | 1   | Marquette 3d Vein..... | 11  |
| Ladd.....          | 1   | Weighman.....  | 1   | Kicked by mule.....    | 2   | Pryce & Seivers.....   | 1   |
| Marquette.....     | 8   |                |     | Pit cars.....          | 18  | St. Paul.....          | 7   |
| Seatonville.....   | 13  |                |     | Railway cars.....      | 1   | Spring Valley.....     | 61  |
| Sherrard.....      | 2   |                |     | Struck by pick.....    | 1   |                        |     |
| Spring Valley..... | 43  |                |     | Tail chain.....        | 1   |                        |     |
| Viola.....         | 1   |                |     |                        |     |                        |     |
| Wyoming.....       | 1   |                |     |                        |     |                        |     |
| Total.....         | 88  |                | 88  |                        | 88  |                        | 88  |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Second District—1912.*

| Nature of injuries.      | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percent-<br>age of<br>injuries. |
|--------------------------|---------|----------|---------|-----------|-------------|-----------------|----------|---------------------------------|
|                          |         |          |         |           |             | Total.          | Average. |                                 |
| Ankles injured.....      | 3       | .....    | 3       | .....     | .....       | 40              | 40.00    | 3.41                            |
| Arms broken.....         | 4       | 1        | 3       | 3         | 4           | 106             | 53.00    | 4.55                            |
| Arms injured.....        | 3       | 3        | .....   | 14        | 17          | 33              | 33.00    | 3.41                            |
| Backs injured.....       | 13      | 8        | 5       | 18        | 26          | 670             | 67.00    | 14.77                           |
| Bodies injured.....      | 5       | 3        | 2       | 6         | 9           | 316             | 79.00    | 5.68                            |
| Collar bone broken.....  | 4       | 2        | 2       | 4         | 6           | 188             | 62.67    | 4.55                            |
| Feet injured.....        | 10      | 4        | 6       | 16        | 20          | 371             | 41.22    | 11.36                           |
| Fingers broken.....      | 1       | 1        | .....   | 1         | .....       | .....           | .....    | 1.14                            |
| Fingers injured.....     | 4       | 2        | 2       | 10        | 12          | 243             | 60.75    | 4.55                            |
| Hands injured.....       | 5       | 1        | 4       | .....     | 1           | 227             | 45.40    | 5.68                            |
| Heads injured.....       | 3       | 3        | .....   | 4         | 7           | 92              | 46.00    | 3.41                            |
| Jaw broken.....          | 1       | 1        | .....   | 6         | 6           | .....           | .....    | 1.14                            |
| Jaw and ribs broken..... | 1       | .....    | 1       | .....     | .....       | 136             | 136.00   | 1.14                            |
| Legs broken.....         | 13      | 9        | 4       | 27        | 36          | 700             | 116.67   | 14.77                           |
| Legs injured.....        | 10      | 6        | 4       | 12        | 17          | 428             | 53.50    | 11.36                           |
| Nose broken.....         | 1       | 1        | .....   | 2         | 3           | .....           | .....    | 1.14                            |
| Ribs broken.....         | 3       | 2        | 1       | 6         | 8           | 84              | 42.00    | 3.41                            |
| Shoulders injured.....   | 3       | 3        | .....   | 9         | 12          | 39              | 39.00    | 3.41                            |
| Toes broken.....         | 1       | 1        | .....   | 3         | 4           | 60              | 60.00    | 1.14                            |
| Total.....               | 88      | 51       | 37      | 141       | 188         | 3,733           | 62.22    | 100 00                          |

*Bureau County—*

| Number.             | Name of operator.                      | Postoffice address of the mines. | Output of mines in tons. |           |               |           |
|---------------------|--|----------------------------------|--------------------------|-----------|---------------|-----------|
|                     |  |                                  | Mine run.                | Lump.     | Other grades. | Total.    |
| SHIPPING MINES.     |  |                                  |                          |           |               |           |
| 1                   | Spring Valley Coal Co., No. 5.....     | Dalzell.....                     | 2,664                    | 262,815   | 51,309        | 316,788   |
| 2                   | Spring Valley Coal Co., No. 3.....     | Spring Valley..                  | 340                      | 214,220   | 44,461        | 259,021   |
| 3                   | Spring Valley Coal Co., No. 1.....     | do.....                          | 31,928                   | 183,813   | 37,112        | 252,853   |
| 4                   | Illinois 3d Vein Coal Co., No. 1.....  | Ladd.....                        | 22,946                   | 137,368   | 78,236        | 238,549   |
| 5                   | St. Paul Coal Co., No. 2.....          | Cherry.....                      |                          | 191,338   | 37,031        | 228,369   |
| 6                   | Spring Valley Coal Co., No. 4.....     | Seatonville.....                 | 5,061                    | 185,828   | 29,148        | 220,037   |
| 7                   | Marquette 3d Vein Coal Co., No. 1..... | Marquette.....                   | 7,423                    | 89,086    | 51,966        | 148,475   |
| Total.....          |  |                                  | 70,361                   | 1,264,468 | 329,263       | 1,664,092 |
| LOCAL MINES.        |  |                                  |                          |           |               |           |
| 1                   | Donahue & Jones.....                   | Sheffield.....                   |                          | 8,445     |               | 8,445     |
| 2                   | L. F. Brandt.....                      | Mineral.....                     |                          | 4,800     |               | 4,800     |
| 3                   | James Neave.....                       | Sheffield.....                   |                          | 3,146     | 150           | 3,296     |
| 4                   | Rockyrun Coal Co.....                  | Tiskilwa.....                    |                          | 180       | 30            | 210       |
| 5                   | Wm. Masters & Bro.....                 | Sheffield.....                   |                          | 160       |               | 160       |
| 6                   | George Prunt.....                      | Tiskilwa.....                    |                          | 100       |               | 100       |
| Total.....          |  |                                  |                          | 16,831    | 180           | 17,011    |
| Total—13 mines..... |  |                                  | 70,361                   | 1,281,299 | 329,443       | 1,681,103 |

Mines reported for 1911, 14.

New mines, 1.

Abandoned mines, 2.

Mines in 1912, 13.



## Second District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 303,571                           | 13,217          | .....                                  | 223                       | 518                       | 167                  | 685    | 316,788     | .....       | .....      | 18       | .....   | .....                          | 98     | 1       |
| 248,908                           | 10,113          | .....                                  | 196                       | 486                       | 168                  | 654    | 259,021     | .....       | 1          | 14       | .....   | .....                          | 91     | 2       |
| 212,837                           | 40,016          | .....                                  | 206                       | 543                       | 163                  | 706    | 252,853     | .....       | .....      | 15       | .....   | .....                          | 91     | 3       |
| 191,861                           | 46,688          | .....                                  | 235                       | 395                       | 175                  | 570    | 238,549     | .....       | .....      | 1        | .....   | .....                          | 76     | 4       |
| 217,501                           | 10,868          | .....                                  | 277                       | 302                       | 100                  | 402    | 228,369     | .....       | .....      | .....    | .....   | .....                          | 22     | 5       |
| 205,383                           | 14,654          | .....                                  | 232                       | 374                       | 150                  | 524    | 220,037     | .....       | .....      | 15       | .....   | .....                          | 71     | 6       |
| 135,353                           | 13,122          | .....                                  | 210                       | 260                       | 100                  | 360    | 148,475     | .....       | 1          | 11       | .....   | .....                          | 36     | 7       |
| 1,515,414                         | 148,678         | .....                                  | 226                       | 2,878                     | 1,023                | 3,901  | 1,664,092   | .....       | 2          | 81       | .....   | .....                          | 485    |         |
| .....                             | .....           | .....                                  | .....                     | .....                     | .....                | .....  | .....       | .....       | .....      | .....    | .....   | .....                          | .....  |         |
| .....                             | 8,445           | 300                                    | 290                       | 20                        | 4                    | 24     | 8,445       | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 4,800           | .....                                  | 240                       | 6                         | 2                    | 8      | 4,800       | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 3,296           | 120                                    | 150                       | 5                         | 1                    | 6      | 3,296       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 210             | 14                                     | 80                        | 2                         | 1                    | 3      | 210         | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 160             | .....                                  | 45                        | 2                         | .....                | 2      | 160         | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 100             | .....                                  | 40                        | 1                         | .....                | 1      | 100         | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 17,011          | 434                                    | 141                       | 36                        | 8                    | 44     | 17,011      | .....       | .....      | .....    | .....   | .....                          | .....  |         |
| 1,515,414                         | 165,689         | 434                                    | 186                       | 2,914                     | 1,031                | 4,945  | 1,681,103   | .....       | 2          | 81       | .....   | .....                          | 485    |         |

*Henry County—*

| Number.             | Name of operator.             | Postoffice address of the mines. | Output of mines in tons. |        |               |        |
|---------------------|-------------------------------|----------------------------------|--------------------------|--------|---------------|--------|
|                     |                               |                                  | Mine run.                | Lump.  | Other grades. | Total. |
| SHIPPING MINES.     |                               |                                  |                          |        |               |        |
| 1                   | Kewanee Coal Co., No. 2 ..... | Kewanee.....                     | 21,532                   | 13,297 | 8,166         | 42,995 |
| LOCAL MINES.        |                               |                                  |                          |        |               |        |
| 1                   | Kewanee Coöpn. Coal Co. ....  | Kewanee.....                     |                          | 12,400 | 700           | 13,100 |
| 2                   | Fred Henry.....               | do.....                          |                          | 7,000  | 300           | 7,300  |
| 3                   | Matt Atkinson.....            | do.....                          |                          | 4,190  | 970           | 5,160  |
| 4                   | Grice Coal Co.....            | do.....                          |                          | 3,858  | 940           | 4,798  |
| 5                   | E. S. Barlow.....             | do.....                          |                          | 1,838  | 240           | 2,078  |
| 6                   | Todd Bros.....                | do.....                          |                          | 1,400  |               | 1,400  |
| 7                   | Herman Hintz & Bro.....       | Geneseo.....                     |                          | 1,110  | 50            | 1,160  |
| 8                   | Wilson & Swan.....            | Kewanee.....                     |                          | 1,100  |               | 1,100  |
| 9                   | Chilton & Boggs.....          | do.....                          |                          | 960    | 60            | 1,020  |
| 10                  | Jas. Kemerling & Son.....     | do.....                          |                          | 800    | 200           | 1,000  |
| 11                  | Bates Bros.....               | do.....                          |                          | 954    |               | 954    |
| 12                  | Frank E. Lane.....            | Cambridge.....                   |                          | 690    | 208           | 898    |
| 13                  | Joseph Engle & Son.....       | Galva.....                       |                          | 880    |               | 880    |
| 14                  | Leo Maloen.....               | Kewanee.....                     |                          | 600    | 100           | 700    |
| 15                  | D. O. Loy.....                | Atkinson.....                    |                          | 520    | 40            | 560    |
| 16                  | Donahou Coal Co.....          | Moline.....                      | 540                      |        |               | 540    |
| 17                  | Rudolph Marke.....            | Briar Bluff.....                 |                          | 513    | 25            | 538    |
| 18                  | J. F. Kincade.....            | do.....                          |                          | 532    |               | 532    |
| 19                  | Joseph Carter.....            | Kewanee.....                     |                          | 270    |               | 270    |
| 20                  | Kershaw & Kay.....            | Briar Bluff.....                 |                          | 89     |               | 89     |
| 21                  | G. Wells.....                 | do.....                          |                          | 70     |               | 70     |
| 22                  | Fred Kershaw.....             | do.....                          |                          | 29     |               | 29     |
| Total.....          |                               |                                  | 540                      | 39,803 | 3,833         | 44,176 |
| Total—23 mines..... |                               |                                  | 22,072                   | 53,100 | 11,999        | 87,171 |

Mines reported for 1911, 22.

New mines, 4.

Abandoned mines, 3.

Mines in 1912, 23.

## Second District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 38,422                            | 4,573           | 1,900                                  | 179                       | 65                        | 30                   | 95     | 42,995      | .....       | 1          | 1        | Solid...                                      | .....                          | 11     | 1       |
| .....                             | 13,100          | .....                                  | 270                       | 24                        | 2                    | 26     | 13,100      | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 7,300           | .....                                  | 200                       | 11                        | 2                    | 13     | 7,300       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 5,160           | .....                                  | 250                       | 10                        | 2                    | 12     | 5,160       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 4,798           | .....                                  | 200                       | 10                        | 1                    | 11     | 4,798       | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 2,078           | .....                                  | 170                       | 8                         | 1                    | 9      | 2,078       | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 1,400           | .....                                  | 175                       | 4                         | 1                    | 5      | 1,400       | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 1,160           | 65                                     | 150                       | 5                         | 1                    | 6      | 1,160       | .....       | .....      | .....    | .....   | .....                          | .....  | 7       |
| .....                             | 1,100           | .....                                  | 180                       | 3                         | 1                    | 4      | 1,100       | .....       | .....      | .....    | .....   | .....                          | .....  | 8       |
| .....                             | 1,020           | .....                                  | 120                       | 4                         | 1                    | 5      | 1,020       | .....       | .....      | .....    | .....   | .....                          | .....  | 9       |
| .....                             | 1,000           | .....                                  | 200                       | 4                         | 1                    | 5      | 1,000       | .....       | .....      | .....    | .....   | .....                          | .....  | 10      |
| .....                             | 954             | .....                                  | 100                       | 5                         | 1                    | 6      | 954         | .....       | .....      | .....    | .....   | .....                          | .....  | 11      |
| .....                             | 898             | 35                                     | 100                       | 5                         | 2                    | 7      | 898         | .....       | .....      | .....    | .....   | .....                          | .....  | 12      |
| .....                             | 880             | .....                                  | 200                       | 3                         | 1                    | 4      | 880         | .....       | .....      | .....    | .....   | .....                          | .....  | 13      |
| .....                             | 700             | .....                                  | 100                       | 4                         | 1                    | 5      | 700         | .....       | .....      | .....    | .....   | .....                          | .....  | 14      |
| .....                             | 560             | .....                                  | 100                       | 3                         | 1                    | 4      | 560         | .....       | .....      | .....    | .....   | .....                          | .....  | 15      |
| .....                             | 540             | 20                                     | 67                        | 3                         | 2                    | 5      | 540         | .....       | .....      | .....    | .....   | .....                          | .....  | 16      |
| .....                             | 538             | 4                                      | 100                       | 2                         | .....                | 2      | 538         | .....       | .....      | .....    | .....   | .....                          | .....  | 17      |
| .....                             | 532             | 26                                     | 110                       | 2                         | .....                | 2      | 532         | .....       | .....      | .....    | .....   | .....                          | .....  | 18      |
| .....                             | 270             | .....                                  | 100                       | 2                         | .....                | 2      | 270         | .....       | .....      | .....    | .....   | .....                          | .....  | 19      |
| .....                             | 89              | 3                                      | 40                        | 2                         | .....                | 2      | 89          | .....       | .....      | .....    | .....   | .....                          | .....  | 20      |
| .....                             | 70              | 2                                      | 40                        | 1                         | .....                | 1      | 70          | .....       | .....      | .....    | .....   | .....                          | .....  | 21      |
| .....                             | 29              | .....                                  | 15                        | 1                         | .....                | 1      | 29          | .....       | .....      | .....    | .....   | .....                          | .....  | 22      |
| .....                             | 44,176          | 155                                    | 136                       | 116                       | 21                   | 137    | 44,176      | .....       | .....      | .....    | .....   | .....                          | .....  | .....   |
| 38,422                            | 48,749          | 2,055                                  | 138                       | 181                       | 51                   | 232    | 87,171      | .....       | 1          | 1        | .....   | .....                          | 11     | .....   |

*Knox County—*

| Number.             | Name of operator.          | Postoffice address of the mines. | Output of mines in tons. |        |               |        |
|---------------------|----------------------------|----------------------------------|--------------------------|--------|---------------|--------|
|                     |                            |                                  | Mine run.                | Lump.  | Other grades. | Total. |
| LOCAL MINES.        |                            |                                  |                          |        |               |        |
| 1                   | T. H. Milan.....           | Galesburg.....                   |                          | 4,806  | 640           | 5,446  |
| 2                   | Pendergast Bros.....       | do.....                          |                          | 5,000  | 200           | 5,200  |
| 3                   | Rodell & Mitchell.....     | Wataga.....                      |                          | 4,153  | 1,000         | 5,153  |
| 4                   | F. H. Moree.....           | Middle Grove.....                |                          | 1,800  |               | 1,800  |
| 5                   | Jesse Millier.....         | Rapatée.....                     |                          | 1,684  |               | 1,684  |
| 6                   | Erie Strom.....            | Victoria.....                    |                          | 1,600  |               | 1,600  |
| 7                   | Galva Mining Co.....       | Wataga.....                      |                          | 1,346  | 240           | 1,586  |
| 8                   | Aaron Teel.....            | Oneida.....                      |                          | 1,550  |               | 1,550  |
| 9                   | Chas. Gladfelter.....      | Victoria.....                    |                          | 1,473  |               | 1,473  |
| 10                  | S. D. McGovern.....        | Oneida.....                      |                          | 1,420  |               | 1,420  |
| 11                  | Newton Anderson.....       | Middle Grove.....                |                          | 1,400  |               | 1,400  |
| 12                  | N. C. Anderson.....        | Knoxville.....                   |                          | 960    |               | 960    |
| 13                  | James Wheateroft.....      | Victoria.....                    |                          | 940    |               | 940    |
| 14                  | Albert Wahlberg.....       | Knoxville.....                   |                          | 800    |               | 800    |
| 15                  | D. I. Foster.....          | Rapatée.....                     |                          | 500    |               | 500    |
| 16                  | Eli Anderson.....          | Victoria.....                    |                          | 480    |               | 480    |
| 17                  | John E. Walsh.....         | Williamsfield.....               |                          | 480    |               | 480    |
| 18                  | Chaffin Henderson.....     | Victoria.....                    |                          | 460    |               | 460    |
| 19                  | John Paul.....             | Rapatée.....                     |                          | 400    |               | 400    |
| 20                  | William Charnock.....      | Dahinda.....                     |                          | 350    |               | 350    |
| 21                  | Claus Bengston & Bros..... | Wataga.....                      |                          | 300    |               | 300    |
| 22                  | Charles Morgan.....        | Oneida.....                      |                          | 200    |               | 200    |
| 23                  | Frank Westerfield.....     | Galesburg.....                   |                          | 175    |               | 175    |
| 24                  | Louis Nodine.....          | Wataga.....                      |                          | 110    |               | 110    |
| 25                  | Thos. Godsell.....         | Dahinda.....                     |                          | 50     |               | 50     |
| Total—25 mines..... |                            |                                  |                          | 32,437 | 2,080         | 34,517 |

Mines reported for 1911, 23.

New mines, 5.

Abandoned mines, 3.

Mines in 1912, 25.

## Second District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| .....                             | 5,246           | 400                                    | 200                       | 10                        | 3                    | 13     | 5,446       | .....       | 1          | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 5,200           | 400                                    | 200                       | 12                        | 2                    | 14     | 5,200       | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 5,153           | .....                                  | 280                       | 6                         | 2                    | 8      | 5,153       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 1,800           | 90                                     | 200                       | 4                         | .....                | 4      | 1,800       | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 1,684           | 200                                    | 200                       | 3                         | .....                | 3      | 1,684       | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 1,600           | .....                                  | 200                       | 4                         | .....                | 4      | 1,600       | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 1,586           | .....                                  | 120                       | 10                        | 2                    | 12     | 1,586       | .....       | .....      | .....    | .....   | .....                          | .....  | 7       |
| .....                             | 1,550           | .....                                  | 200                       | 4                         | .....                | 4      | 1,550       | .....       | .....      | .....    | .....   | .....                          | .....  | 8       |
| .....                             | 1,473           | .....                                  | 125                       | 6                         | 1                    | 7      | 1,473       | .....       | .....      | .....    | .....   | .....                          | .....  | 9       |
| .....                             | 1,420           | .....                                  | 200                       | 4                         | 1                    | 5      | 1,420       | .....       | .....      | .....    | .....   | .....                          | .....  | 10      |
| .....                             | 1,400           | 85                                     | 250                       | 4                         | .....                | 4      | 1,400       | .....       | .....      | .....    | .....   | .....                          | .....  | 11      |
| .....                             | 960             | .....                                  | 150                       | 4                         | .....                | 4      | 960         | .....       | .....      | .....    | .....   | .....                          | .....  | 12      |
| .....                             | 940             | .....                                  | 128                       | 2                         | .....                | 2      | 940         | .....       | .....      | .....    | .....   | .....                          | .....  | 13      |
| .....                             | 800             | .....                                  | 150                       | 3                         | 1                    | 4      | 800         | .....       | .....      | .....    | .....   | .....                          | .....  | 14      |
| .....                             | 500             | 48                                     | 180                       | 2                         | .....                | 2      | 500         | .....       | .....      | .....    | .....   | .....                          | .....  | 15      |
| .....                             | 480             | .....                                  | 120                       | 3                         | .....                | 3      | 480         | .....       | .....      | .....    | .....   | .....                          | .....  | 16      |
| .....                             | 480             | 12                                     | 100                       | 3                         | 1                    | 4      | 480         | .....       | .....      | .....    | .....   | .....                          | .....  | 17      |
| .....                             | 460             | .....                                  | 140                       | 2                         | .....                | 2      | 460         | .....       | .....      | .....    | .....   | .....                          | .....  | 18      |
| .....                             | 440             | 20                                     | 200                       | 2                         | 1                    | 3      | 400         | .....       | .....      | .....    | .....   | .....                          | .....  | 19      |
| .....                             | 350             | .....                                  | 115                       | 2                         | .....                | 2      | 350         | .....       | .....      | .....    | .....   | .....                          | .....  | 20      |
| .....                             | 300             | .....                                  | 120                       | 2                         | .....                | 2      | 300         | .....       | .....      | .....    | .....   | .....                          | .....  | 21      |
| .....                             | 200             | .....                                  | 60                        | 2                         | .....                | 2      | 200         | .....       | .....      | .....    | .....   | .....                          | .....  | 22      |
| .....                             | 175             | .....                                  | 75                        | 2                         | .....                | 2      | 175         | .....       | .....      | .....    | .....   | .....                          | .....  | 23      |
| .....                             | 110             | .....                                  | 60                        | 1                         | .....                | 1      | 110         | .....       | .....      | .....    | .....   | .....                          | .....  | 24      |
| .....                             | 50              | .....                                  | 50                        | 1                         | .....                | 1      | 50          | .....       | .....      | .....    | .....   | .....                          | .....  | 25      |
| .....                             | 34,517          | 1,255                                  | 153                       | 98                        | 14                   | 112    | 34,517      | .....       | 1          | .....    | .....   | .....                          | .....  | .....   |

*Mercer County—*

| Number.             | Name of operator.                  | Postoffice address of the mines. | Output of mines in tons. |         |               |         |
|---------------------|------------------------------------|----------------------------------|--------------------------|---------|---------------|---------|
|                     |                                    |                                  | Mine run.                | Lump.   | Other grades. | Total.  |
| SHIPPING MINES.     |                                    |                                  |                          |         |               |         |
| 1                   | Coal Valley Mining Co., No. 2..... | Sherrard.....                    | 3,683                    | 29,862  | 78,255        | 111,800 |
| 2                   | Coal Valley Mining Co., No. 3..... | Mathersville....                 | 2,658                    | 33,144  | 69,815        | 105,617 |
| 3                   | Alden Coal Co., No. 7. ....        | do.....                          | 178                      | 40,935  | 59,540        | 100,653 |
| Total.....          |                                    |                                  | 6,519                    | 103,941 | 207,610       | 318,070 |
| LOCAL MINES.        |                                    |                                  |                          |         |               |         |
| 1                   | W. H. Riddell.....                 | Aledo.....                       |                          | 4,000   | 200           | 4,200   |
| 2                   | W. P. Williams.....                | do.....                          |                          | 3,648   |               | 3,648   |
| 3                   | Doeherty Bros.....                 | Preemption.....                  |                          | 3,200   | 300           | 3,500   |
| 4                   | R. W. Peterson.....                | New Windsor.....                 |                          | 1,096   | 548           | 1,644   |
| 5                   | C. W. Essley.....                  | Viola.....                       |                          | 1,200   |               | 1,200   |
| 6                   | B. B. Peterson.....                | Cable.....                       | 150                      | 800     | 50            | 1,000   |
| 7                   | T. C. Dodds & Son.....             | Viola.....                       |                          | 800     |               | 800     |
| 8                   | A. W. Wahlberg.....                | Cable.....                       |                          | 300     | 100           | 400     |
| 9                   | James Blain.....                   | Viola.....                       |                          | 200     |               | 200     |
| Total.....          |                                    |                                  | 150                      | 15,244  | 1,198         | 16,592  |
| Total—12 mines..... |                                    |                                  | 6,669                    | 119,185 | 208,808       | 334,662 |

Mines reported for 1911, 15.

New mines, 2.

Abandoned mines, 5.

Mines in 1912, 12.

## Second District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                        | Mules. |         |
| 97,320                            | 14,480          | 5,444                                  | 189                       | 92                        | 83                   | 175    | 111,800     |             |             |          | 3 Solid...                                    | 18                             |        | 1       |
| 101,732                           | 3,885           | 5,440                                  | 157                       | 89                        | 53                   | 142    | 105,617     |             | 1           |          | do...   | 15                             |        | 2       |
| 100,153                           | 500             | 6,000                                  | 163                       | 104                       | 50                   | 154    | 100,653     |             |             | 1        | do...   | 12                             |        | 3       |
| 290,205                           | 18,865          | 16,884                                 | 170                       | 285                       | 186                  | 471    | 318,070     |             |             | 4        |   |                                |        | 45      |
| .....                             | 4,200           | 250                                    | 160                       | 7                         | 3                    | 10     | 4,200       |             |             |          |   |                                |        | 1       |
| .....                             | 3,648           | 250                                    | 132                       | 5                         | 1                    | 6      | 3,648       |             |             |          |   |                                |        | 2       |
| .....                             | 3,500           | 275                                    | 152                       | 6                         | 2                    | 8      | 3,500       |             |             |          |   |                                |        | 3       |
| .....                             | 1,644           | 81                                     | 150                       | 5                         | 2                    | 7      | 1,644       |             |             |          |   |                                |        | 4       |
| .....                             | 1,200           | 60                                     | 100                       | 5                         | 1                    | 6      | 1,200       |             |             |          |   |                                |        | 5       |
| .....                             | 1,000           | 84                                     | 120                       | 3                         | 1                    | 4      | 1,000       |             |             |          |   |                                |        | 6       |
| .....                             | 800             | 40                                     | 150                       | 2                         |                      | 3      | 800         |             |             |          |   |                                |        | 7       |
| .....                             | 400             | 18                                     | 120                       | 2                         | 1                    | 3      | 400         |             |             |          |   |                                |        | 8       |
| .....                             | 200             | 12                                     | 100                       | 2                         | 1                    | 3      | 200         |             |             |          |   |                                |        | 9       |
| .....                             | 16,592          | 1,070                                  | 132                       | 38                        | 12                   | 50     | 16,592      |             |             |          |   |                                |        |         |
| 299,205                           | 35,457          | 17,954                                 | 141                       | 323                       | 198                  | 521    | 334,662     |             | 1           | 4        |   |                                |        | 45      |

*Rock Island County—*

| Number.              | Name of operator.                  | Postoffice address of the mines. | Output of mines in tons. |        |               |        |
|----------------------|------------------------------------|----------------------------------|--------------------------|--------|---------------|--------|
|                      |                                    |                                  | Mine run.                | Lump.  | Other grades. | Total. |
| SHIPPING MINES.      |                                    |                                  |                          |        |               |        |
| 1                    | Central Ill. Fuel Co., No. 1 ..... | Coal Valley .....                | 1,600                    | 8,040  | 3 400         | 13,040 |
| LOCAL MINES.         |                                    |                                  |                          |        |               |        |
| 1                    | J. J. Pryce & Son .....            | Coal Valley .....                |                          | 16,177 | 5,392         | 21,569 |
| 2                    | Pryce & Severs Coal Co. ....       | do .....                         |                          | 11,500 | 5,398         | 16,898 |
| 3                    | Moline Coal Co. ....               | Moline .....                     | 6,020                    | 150    | 1,200         | 7,370  |
| 4                    | Stohr & Schadt .....               | Carbon Cliff .....               |                          | 2,595  | 865           | 3,460  |
| 5                    | South Rock Island Coal Co. ....    | Rock Island .....                | 38                       | 1,855  | 927           | 2,820  |
| 6                    | Frederick & Gramenz .....          | Coal Valley .....                |                          | 1,670  | 710           | 2,380  |
| 7                    | Jamieson & Irwin .....             | Moline .....                     |                          | 1,140  | 320           | 1,460  |
| 8                    | Chas. Rosemon .....                | Carbon Cliff .....               |                          | 1,200  | 200           | 1,400  |
| 9                    | Stone Bros. ....                   | Moline .....                     |                          | 656    | 40            | 696    |
| 10                   | Von Ach Bros. ....                 | Hampton .....                    |                          | 400    |               | 400    |
| 11                   | Coöperative Coal Co. ....          | do .....                         | 203                      |        |               | 203    |
| Total .....          |                                    |                                  | 6,261                    | 37,343 | 15,052        | 58,656 |
| Total—12 mines ..... |                                    |                                  | 7,861                    | 45,383 | 18,452        | 71,696 |

Mines reported for 1911, 13.

New mines, 1.

Abandoned mines, 2.

Mines in 1912, 12.



## Second District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 11,135                            | 1,905           | 224                                    | 233                       | 15                        | 14                   | 29     | 3,540       | 9,500       | .....      | .....    | Both.....                                     | .....                          | 4      | 1       |
| .....                             | 21,569          | 450                                    | 180                       | 24                        | 7                    | 31     | 21,569      | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 16,898          | 905                                    | 125                       | 25                        | 11                   | 36     | 16,898      | .....       | .....      | 1        | .....   | .....                          | .....  | 2       |
| .....                             | 7,370           | 362                                    | 170                       | 9                         | 2                    | 11     | 7,370       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 3,460           | 300                                    | 205                       | 8                         | 2                    | 10     | 3,460       | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 2,820           | 160                                    | 140                       | 7                         | 2                    | 9      | 2,820       | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 2,380           | 80                                     | 180                       | 4                         | 1                    | 5      | 2,380       | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 1,460           | 110                                    | 240                       | 5                         | 1                    | 6      | 1,460       | .....       | .....      | .....    | .....   | .....                          | .....  | 7       |
| .....                             | 1,400           | 135                                    | 220                       | 4                         | 1                    | 5      | 1,400       | .....       | .....      | .....    | .....   | .....                          | .....  | 8       |
| .....                             | 696             | 25                                     | 108                       | 2                         | .....                | 2      | 696         | .....       | .....      | .....    | .....   | .....                          | .....  | 9       |
| .....                             | 400             | .....                                  | 120                       | 2                         | 1                    | 3      | 400         | .....       | .....      | .....    | .....   | .....                          | .....  | 10      |
| .....                             | 203             | 6                                      | 20                        | 4                         | 1                    | 5      | 203         | .....       | .....      | .....    | .....   | .....                          | .....  | 11      |
| .....                             | 58,656          | 2,533                                  | 155                       | 94                        | 29                   | 123    | 58,656      | .....       | .....      | 1        | .....   | .....                          | .....  | .....   |
| 11,135                            | 60,561          | 2,757                                  | 162                       | 109                       | 43                   | 152    | 62,196      | 9,500       | .....      | 1        | .....   | .....                          | 4      | .....   |

*Stark County—*

| Number.            | Name of operator.       | Postoffice address of the mines. | Output of mines in tons. |        |               |        |
|--------------------|-------------------------|----------------------------------|--------------------------|--------|---------------|--------|
|                    |                         |                                  | Mine run.                | Lump.  | Other grades. | Total  |
| SHIPPING MINES     |                         |                                  |                          |        |               |        |
| 1                  | Wyoming Mining Co. .... | Wyoming .....                    | 3,331                    | 6,956  | 3,039         | 13,326 |
| LOCAL MINES.       |                         |                                  |                          |        |               |        |
| 1                  | W. B. Ballentine.....   | Wyoming.....                     |                          | 4,800  | 800           | 5,600  |
| 2                  | Andrews Coal Co.....    | do.....                          |                          | 4,700  | 300           | 5,000  |
| 3                  | Alice J. Catton.....    | LaFayette.....                   |                          | 2,516  | 200           | 2,716  |
| 4                  | James Scott.....        | Wyoming.....                     |                          | 2,160  | 40            | 2,200  |
| 5                  | Jesse Saville.....      | Toulon.....                      |                          | 2,004  |               | 2,004  |
| 6                  | Wm. Dalrymple.....      | Wyoming.....                     |                          | 1,200  | 200           | 1,400  |
| 7                  | Endreas Bros.....       | LaFayette.....                   |                          | 450    | 50            | 500    |
| Total.....         |                         |                                  |                          | 17,830 | 1,590         | 19,420 |
| Total—8 mines..... |                         |                                  | 3,331                    | 24,786 | 4,629         | 32,746 |

Mines reported for 1911, 10.

New mines, 1.

Abandoned mines, 3.

Mines in 1912, 8.

*Second District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 10,056                            | 3,270           | 656                                    | 219                       | 27                        | 6                    | 33     | 13,326      |             |            |          | Solid...                                      | 1                              | 1      | 1       |
|                                   |                 |  |                           |                           |                      |        |             |             |            |          |   |                                |        |         |
|                                   | 5,600           | 260                                    | 225                       | 9                         | 2                    | 11     | 5,600       |             |            |          |   |                                |        | 1       |
|                                   | 5,000           | 195                                    | 215                       | 8                         | 2                    | 10     | 5,000       |             | 1          | 1        |   |                                |        | 2       |
|                                   | 2,716           | 77                                     | 275                       | 6                         | 1                    | 7      | 2,716       |             |            |          |   |                                |        | 3       |
|                                   | 2,200           | 120                                    | 180                       | 6                         | 1                    | 7      | 2,200       |             |            |          |   |                                |        | 4       |
|                                   | 2,004           | 25                                     | 200                       | 4                         | 1                    | 5      | 2,004       |             |            |          |   |                                |        | 5       |
|                                   | 1,400           | 10                                     | 175                       | 4                         | 2                    | 6      | 1,400       |             |            |          |   |                                |        | 6       |
|                                   | 500             |  | 100                       | 2                         | 1                    | 3      | 500         |             |            |          |   |                                |        | 7       |
|                                   |                 |  |                           |                           |                      |        |             |             |            |          |   |                                |        |         |
|                                   | 19,420          | 687                                    | 196                       | 39                        | 10                   | 49     | 19,420      |             | 1          | 1        |   |                                |        |         |
| 10,056                            | 22,690          | 1,343                                  | 199                       | 66                        | 16                   | 82     | 32,746      |             | 1          | 1        |   | 1                              | 1      |         |

## Warren County—

| Number.              | Name of operator.      | Postoffice address of the mines. | Output of mines in tons. |       |               |        |
|----------------------|------------------------|----------------------------------|--------------------------|-------|---------------|--------|
|                      |                        |                                  | Mine run.                | Lump. | Other grades. | Total. |
| LOCAL MINES.         |                        |                                  |                          |       |               |        |
| 1                    | Simecox Bros. ....     | Alexis. ....                     |                          | 2,602 | 480           | 3,082  |
| 2                    | H. J. Rohr. ....       | do. ....                         |                          | 1,920 | 200           | 2,120  |
| 3                    | F. R. Kennedy. ....    | Monmouth. ....                   |                          | 960   |               | 960    |
| 4                    | Willis Clayton. ....   | Avon. ....                       |                          | 768   |               | 768    |
| 5                    | Gus Von Ach. ....      | Roseville. ....                  |                          | 500   | 8             | 508    |
| 6                    | E. J. Sprinkle. ....   | Avon. ....                       |                          | 360   | 8             | 368    |
| 7                    | Thos. Caldwell. ....   | do. ....                         |                          | 336   |               | 336    |
| 8                    | J. G. Lee. ....        | Youngstown. ....                 |                          | 106   |               | 106    |
| 9                    | H. Chatterton. ....    | Monmouth. ....                   |                          | 100   |               | 100    |
| 10                   | Lee & Miller. ....     | Swan Creek. ....                 |                          | 90    |               | 90     |
| 11                   | W. Cook. ....          | Alexis. ....                     |                          | 40    |               | 40     |
| 12                   | Manuel & Beckner. .... | Roseville. ....                  |                          | 20    |               | 20     |
| Total—12 mines. .... |                        |                                  |                          | 7,802 | 696           | 8,498  |

Mines reported for 1911, 11.

New mines, 3.

Abandoned mines, 2.

Mines in 1912, 12.

## Second District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                         | Mules. |         |
| .....                             | 3,082           | 300                                    | 200                       | 6                         | 1                    | 7      | 3,082       | .....       | .....       | .....    | .....   | .....                           | .....  | 1       |
| .....                             | 2,120           | 250                                    | 160                       | 5                         | 1                    | 6      | 2,120       | .....       | .....       | .....    | .....   | .....                           | .....  | 2       |
| .....                             | 960             | .....                                  | 224                       | 6                         | 1                    | 7      | 960         | .....       | .....       | .....    | .....   | .....                           | .....  | 3       |
| .....                             | 768             | .....                                  | 160                       | 5                         | .....                | 5      | 768         | .....       | .....       | .....    | .....   | .....                           | .....  | 4       |
| .....                             | 508             | .....                                  | 190                       | 2                         | 1                    | 3      | 508         | .....       | .....       | .....    | .....   | .....                           | .....  | 5       |
| .....                             | 368             | .....                                  | 95                        | 2                         | .....                | 2      | 368         | .....       | .....       | .....    | .....   | .....                           | .....  | 6       |
| .....                             | 336             | .....                                  | 90                        | 2                         | .....                | 2      | 336         | .....       | .....       | .....    | .....   | .....                           | .....  | 7       |
| .....                             | 106             | .....                                  | 50                        | 2                         | .....                | 2      | 106         | .....       | .....       | .....    | .....   | .....                           | .....  | 8       |
| .....                             | 100             | .....                                  | 55                        | 2                         | .....                | 2      | 100         | .....       | .....       | .....    | .....   | .....                           | .....  | 9       |
| .....                             | 90              | .....                                  | 30                        | 3                         | .....                | 3      | 90          | .....       | .....       | .....    | .....   | .....                           | .....  | 10      |
| .....                             | 40              | .....                                  | 25                        | 1                         | .....                | 1      | 40          | .....       | .....       | .....    | .....   | .....                           | .....  | 11      |
| .....                             | 20              | .....                                  | 10                        | 2                         | .....                | 2      | 20          | .....       | .....       | .....    | .....   | .....                           | .....  | 12      |
| .....                             | 8,498           | 550                                    | 107                       | 40                        | 4                    | 44     | 8,498       | .....       | .....       | .....    | .....   | .....                           | .....  | .....   |

*Shipping mines—recapitulation by*

| Counties.      | Number of mines. | Productions of different grades in tons. |           |         |       |         |        | Total.    | Disposition of out-put—tons. |                 |
|----------------|------------------|--|-----------|---------|-------|---------|--------|-----------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.     | Egg.    | Nut.  | Pea.    | Slack. |           | Loaded on cars for shipment. | Other purposes. |
| Bureau.....    | 7                | 70,361                                   | 1,264,468 | 64,830  | ..... | 227,395 | 37,038 | 1,664,092 | 1,515,414                    | 148,678         |
| Henry.....     | 1                | 21,532                                   | 13,297    | .....   | ..... | 8,166   | .....  | 42,995    | 38,422                       | 4,573           |
| Mercer.....    | 3                | 6,519                                    | 103,941   | 109,448 | 9,086 | 80,026  | 9,050  | 318,070   | 299,205                      | 18,865          |
| Rock Island... | 1                | 1,600                                    | 8,040     | .....   | ..... | .....   | 3,400  | 13,040    | 11,135                       | 1,905           |
| Stark.....     | 1                | 3,331                                    | 6,956     | .....   | 540   | 2,499   | .....  | 13,326    | 10,056                       | 3,270           |
| Total.....     | 13               | 103,343                                  | 1,396,702 | 174,278 | 9,626 | 318,086 | 49,488 | 2,051,523 | 1,874,242                    | 177,291         |

*Local mines—recapitulation by*

| Counties.       | Number of mines. | Productions of different grades in tons. |           |         |        |         |        | Total.    | Disposition of out-put—tons. |                 |
|-----------------|------------------|--|-----------|---------|--------|---------|--------|-----------|------------------------------|-----------------|
|                 |                  | Mine run.                                | Lump.     | Egg.    | Nut.   | Pea.    | Slack. |           | Loaded on cars for shipment. | Other purposes. |
| Bureau.....     | 6                | .....                                    | 16,831    | .....   | .....  | 180     | .....  | 17,011    | .....                        | 17,011          |
| Henry.....      | 22               | 540                                      | 39,803    | .....   | .....  | 3,833   | .....  | 44,176    | .....                        | 44,176          |
| Knox.....       | 25               | .....                                    | 32,437    | .....   | .....  | .....   | 2,080  | 34,517    | .....                        | 34,517          |
| Mercer.....     | 9                | 150                                      | 15,244    | .....   | .....  | .....   | 1,198  | 16,592    | .....                        | 16,592          |
| Rock Island...  | 11               | 6,261                                    | 37,343    | .....   | .....  | 10,790  | 4,262  | 58,656    | .....                        | 58,656          |
| Stark.....      | 7                | .....                                    | 17,830    | .....   | 1,590  | .....   | .....  | 19,420    | .....                        | 19,420          |
| Warren.....     | 12               | .....                                    | 7,802     | .....   | 696    | .....   | .....  | 8,498     | .....                        | 8,498           |
| Total.....      | 92               | 6,951                                    | 167,290   | .....   | 2,286  | 14,803  | 7,540  | 198,870   | .....                        | 198,870         |
| The District... | 105              | 110,294                                  | 1,563,992 | 174,278 | 11,912 | 332,889 | 57,028 | 2,250,393 | 1,874,232                    | 376,161         |

Whole number of mines reported for 1911, 108.

Number of new mines opened during the year, 17.

Number of mines abandoned during the year, 20.

Whole number of mines reported for 1912, 105.

## counties—Second District—1912.

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| .....                                  | 226                       | 2,878        | 661     | 111   | 251               | 3,901  | 1,664,092   | .....       | 1,664,092        | .....          | .....              |
| 1,900                                  | 179                       | 65           | 16      | 6     | 8                 | 95     | 42,695      | .....       | 42,695           | .....          | .....              |
| 16,884                                 | 170                       | 285          | 124     | 4     | 58                | 471    | 318,070     | .....       | 318,070          | .....          | .....              |
| 224                                    | 233                       | 15           | 9       | ..... | 5                 | 29     | 3,540       | 9,500       | .....            | .....          | 13,040             |
| 656                                    | 219                       | 27           | 3       | ..... | 3                 | 33     | 13,326      | .....       | 13,326           | .....          | .....              |
| 19,664                                 | 109                       | 3,270        | 813     | 121   | 325               | 4,529  | 2,042,023   | 9,500       | 2,038,483        | .....          | 13,040             |

## counties—Second District—1912.

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 434                                    | 141                       | 36           | .....   | ..... | 8                 | 44     | 17,011      | .....       | .....            | .....          | .....              |
| 155                                    | 136                       | 116          | .....   | ..... | 21                | 137    | 44,176      | .....       | .....            | .....          | .....              |
| 1,255                                  | 153                       | 98           | 1       | ..... | 13                | 112    | 34,517      | .....       | .....            | .....          | .....              |
| 1,070                                  | 132                       | 38           | 3       | ..... | 9                 | 50     | 16,592      | .....       | .....            | .....          | .....              |
| 2,533                                  | 155                       | 94           | .....   | 1     | 28                | 123    | 58,656      | .....       | .....            | .....          | .....              |
| 687                                    | 196                       | 39           | .....   | ..... | 10                | 49     | 19,420      | .....       | .....            | .....          | .....              |
| 550                                    | 107                       | 40           | .....   | ..... | 4                 | 44     | 8,498       | .....       | .....            | .....          | .....              |
| 6,684                                  | 144                       | 461          | 4       | 1     | 93                | 559    | 198,870     | .....       | .....            | .....          | .....              |
| 26,348                                 | 152                       | 3,731        | 817     | 122   | 418               | 5,088  | 2,240,893   | 9,500       | .....            | .....          | .....              |

*All mines—recapitulation by*

| Counties.      | Number of mines. | Productions of different grades in tons. |           |         |        |         |        | Total.    | Disposition of output—tons.  |                 |
|----------------|------------------|--|-----------|---------|--------|---------|--------|-----------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.     | Egg.    | Nut.   | Pea.    | Slack. |           | Loaded on cars for shipment. | Other purposes. |
| Bureau.....    | 13               | 70,361                                   | 1,281,299 | 64,830  | .....  | 227,575 | 37,038 | 1,681,103 | 1,515,414                    | 165,689         |
| Henry.....     | 23               | 22,072                                   | 53,100    | .....   | .....  | 11,999  | .....  | 87,171    | 38,422                       | 48,749          |
| Knox.....      | 25               | .....                                    | 32,437    | .....   | .....  | .....   | 2,080  | 34,517    | .....                        | 34,517          |
| Mercer.....    | 12               | 6,669                                    | 119,185   | 109,448 | 9,086  | 80,026  | 10,248 | 334,662   | 299,205                      | 35,457          |
| Rock Island... | 12               | 7,861                                    | 45,383    | .....   | .....  | 10,790  | 7,662  | 71,696    | 11,135                       | 60,561          |
| Stark.....     | 8                | 3,331                                    | 24,786    | .....   | 2,130  | 2,499   | .....  | 32,746    | 10,056                       | 22,690          |
| Warren.....    | 12               | .....                                    | 7,802     | .....   | 696    | .....   | .....  | 8,498     | .....                        | 8,498           |
| Total.....     | 105              | 110,294                                  | 1,563,992 | 174,278 | 11,912 | 332,889 | 57,028 | 2,250,393 | 1,874,232                    | 376,161         |



counties—*Second District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        |           | Tons mined. |                  | Blasting coal. |                    |  |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-----------|-------------|------------------|----------------|--------------------|--|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.  | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |  |
|  |                           | Miners.      | Others. | Boys. |                   |        |           |             |                  |                |                    |  |
| 434                                    | 186                       | 2,914        | 661     | 111   | 259               | 3,945  | 1,681,103 |             |                  |                |                    |  |
| 2,055                                  | 138                       | 181          | 16      | 6     | 29                | 232    | 87,171    |             |                  |                |                    |  |
| 1,255                                  | 153                       | 98           | 1       |       | 13                | 112    | 34,517    |             |                  |                |                    |  |
| 17,954                                 | 141                       | 323          | 127     | 4     | 67                | 521    | 334,662   |             |                  |                |                    |  |
| 2,757                                  | 162                       | 109          | 9       | 1     | 33                | 152    | 62,196    | 9,500       |                  |                |                    |  |
| 1,343                                  | 199                       | 66           | 3       |       | 13                | 82     | 32,746    |             |                  |                |                    |  |
| 550                                    | 107                       | 40           |         |       | 4                 | 44     | 8,498     |             |                  |                |                    |  |
| 26,348                                 | 152                       | 3,731        | 817     | 122   | 418               | 5,088  | 2,240,893 | 9,500       |                  |                |                    |  |

## THIRD INSPECTION DISTRICT—1912.

### ANNUAL REPORT.

Counties—Marshall, Menard, Peoria, Putnam, Tazewell, Woodford.

JOHN DUNLOP, *Inspector*, Peoria.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Marshall, Menard, Peoria, Putnam, Tazewell and Woodford.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|  |             |
|--|-------------|
| Number of counties producing coal .....                | 6           |
| Number of shipping mines .....                         | 32          |
| Number of local mines .....                            | 69          |
| Number of new or reopened mines .....                  | 16          |
| Number of closed or abandoned mines .....              | 15          |
| Number of miners .....                                 | 3, 674      |
| Other underground, men .....                           | 997         |
| Boys underground .....                                 | 101         |
| Boys above ground .....                                | 7           |
| Other above ground .....                               | 485         |
| Total number of employees .....                        | 5, 264      |
| Total tons of coal produced .....                      | 3, 015, 086 |
| Days of active operation, all mines .....              | 172         |
| Kegs of powder used for blasting coal .....            | 89, 010     |
| Tons of coal shipped .....                             | 2, 502, 512 |
| Tons supplied to locomotives .....                     | 57, 935     |
| Tons sold to local trade .....                         | 315, 179    |
| Tons consumed and wasted at the mines .....            | 139, 460    |
| Number of fatal accidents .....                        | 7           |
| Number of non-fatal accidents .....                    | 62          |
| Number of employees to each fatal accident .....       | 752         |
| Number of employees to each non-fatal accident .....   | 85          |
| Tons of coal produced to each fatal accident .....     | 430, 727    |
| Tons of coal produced to each non-fatal accident ..... | 48, 647     |
| Ratio of fatal accidents per 1,000 employees .....     | 1.33        |

The following table gives the total tonnage by counties for the years 1911 and 1912, with increase or decrease:

| Counties.          | Total output—Tons. |             | Increase. | Decrease. |
|--------------------|--------------------|-------------|-----------|-----------|
|                    | 1911.              | 1912.       |           |           |
| Marshall .....     | 311, 921           | 447, 094    | 135, 173  | .....     |
| Menard .....       | 258, 408           | 220, 418    | .....     | 37, 990   |
| Peoria .....       | 964, 698           | 1, 207, 723 | 243, 025  | .....     |
| Putnam .....       | 585, 135           | 716, 531    | 131, 396  | .....     |
| Tazewell .....     | 196, 090           | 239, 424    | 43, 334   | .....     |
| Woodford .....     | 135, 390           | 183, 896    | 48, 506   | .....     |
| Total .....        | 2, 451, 642        | 3, 015, 086 | 601, 434  | 37, 990   |
| Net increase ..... | .....              | .....       | 563, 444  | .....     |

## NEW AND ABANDONED MINES.

Two shipping and fourteen local mines have been reported this year as new or reopened mines, while one shipping and fourteen locals have temporarily closed or permanently abandoned.

## CHANGE OF NAMES.

The following changes of ownership is noted:

Deemy & Cruickshanks, now Peoria District Colliery Co.

I. J. Slocum, now operated by Thomas Shorb.

Robinson and Torloff, now operated by Heitzman and Smith.

T. H. Lonsdale, now operated by Taylor and Appleby.

## IMPROVEMENTS.

The Clark Coal & Coke Company of Peoria has placed a Booster fan in their mine. Owing to the wide discussion this subject has been given in some of our leading mining papers I herewith give results obtained from the working of this fan:

The principal fan, which is on the surface near the top of escapement shaft, is 15 feet in diameter, made by Crawford & McCrimmond of Brazil, Ind. This fan, making 83 revolutions a minute and the water gauge 1.3 inch, delivered 43,970 cubic feet of air at the bottom of the downcast shaft. This quantity was delivered in two splits.

The wheel of the Booster fan is 4 feet in diameter, having double inlet of 2 feet and driven by a 25 horsepower motor. This fan, made by the Jeffrey Mfg. Co., Columbus, Ohio, was placed at a distance of 3,500 feet from the bottom of downcast shaft on the split going south. This split was kept intact by having overcasts built over the cross entries so that the air taken into this split was again divided into two splits at the distance mentioned above.

Both fans working together, the large fan made 83 revolutions per minute, the small fan 372 revolutions per minute; or the periphery speed of the large fan was 3911.29 feet per minute, and the periphery speed of the small fan was 4674.7 feet per minute. The water gauge at fan drift of the large fan showed no change, but placed on the door near the small fan showed two inches.

The quantity measured at the bottom of the downcast was 46,496 cubic feet, or an increase of 2,526 cubic feet over that delivered by the large fan working alone. This increase was all on the split in which the small fan was working. The great advantage of the Booster fan was seen when the air current was measured near the discharge.

The quantity delivered by the large fan was 14,880 cubic feet; the quantity delivered with both fans running, and measured at the same place, was found to be 38,400 cubic feet.

The quantity going into this split measured at the bottom of the downcast shaft was 22,142 cubic feet, both fans working. This showed an increase of 16,358 cubic feet. This proved that there was a leakage of this amount from the main return, through the crosscuts, owing to the stoppings not being made air-tight. When the large fan was working alone, it was found that there was a leakage of 5,224 cubic feet. After all stoppings were gone over and leakages stopped as near as possible, the small fan still delivered a larger amount than was measured at the bottom of downcast or at the entrance of this split, so that the real benefit gained by installing the small fan was the delivering all of the air near the working places.

Brewster & Evans Coal Company has put down another escapement shaft. The sinking of an escapement shaft near the working places is the most beneficial improvement, so far as safety of employees and the increasing of the ventilation is concerned, that can be made at any mine, and it usually means the abandoning of a long air course which is expensive to keep in proper condition.

## FATAL ACCIDENTS.

The number of fatal accidents has increased during the year, and, with the exception of two, are due to falling of slate or coal. I am deeply impressed that some of them are due entirely to negligence and could have been avoided. I believe that the passage of the workmen's compensation act is going to have a healthful influence in the decrease of all accidents around the coal mines. Notwithstanding that 50 per cent of the operators have rejected the compensation act, greater measures are being taken by the operators to prevent accidents since its passage. A few years ago the State Inspectors at a meeting held in Springfield recommended the passage of an act requiring that competent men be employed to examine and visit the working places at least twice a day while the miners were at work. The purpose intended was that these men would see that dangerous places were made safe and that the miners were supplied with the necessary timbers and cap pieces, so that their working places could be properly timbered and made safe. I am glad to say that this method is being adopted by some of the largest employers of labor in this district since the passage of the workmen's compensation act.

The following is a report in detail of the fatal accidents that occurred in the third inspection district for the year ended June 30, 1912:

August 10, 1911, John Saur, miner, aged 36 years, single, was killed by a fall of slate at the face of his working place in the Clark Coal & Coke Co.'s mine at Peoria. The deceased was mining coal which had been shot the previous day, and on account of a slip in the roof the shot had loosened the slate and the same had not been noticed by him. It gave way without any warning, falling, and killing him instantly.

December 20, 1911, John E. Evans, track layer, aged 47 years, married, was repairing tracks in the Illinois Valley Coal Co.'s mine No. 2, Sparland, Marshall County, when a large piece of slate fell, killing him instantly. He leaves a widow and two children.

December 21, 1911, August Ataliano, timberman, aged 40 years, single, was preparing to place timber in the St. Paul Coal Co.'s mine No. 1, Granville, Putnam County, when he was seriously injured by falling rock. He died December 24.

January 6, 1912, Mark Whitehurst, miner, aged 53 years, married, was struck on the head by a piece of flying coal and instantly killed. Deceased was employed in the South Mountain Coal Co.'s mine, Petersburg, Menard County. He leaves a widow and seven children.

January 20, 1912, C. F. Johnson, owner of the Johnson Valley Coal Co.'s mine, Irish Grove, Menard County, aged 57 years, married, was working on top as cager; he attempted to walk over cover on top of shaft at upper landing to the other side of shaft, so that he could push a car off the cage. The cover gave way, causing him to fall down the shaft. When found he was dead. The deceased leaves a widow and six children.

January 24, 1912, Joe Minescio, miner, aged 20 years, single, was killed by a fall of rock at his working place in the Wenona Coal Co.'s mine, Wenona, Marshall County.

March 20, 1912, Joseph Rinaldo, miner, aged 49 years, married, working in the Roanoke Coal Co.'s mine, Roanoke, Woodford County, was seriously injured by a fall of coal at his working place and died March 22. He leaves a widow and three children.

Respectfully submitted,

JOHN DUNLOP,

*State Inspector of Mines, Third District, Peoria, Ill.*

*Fatal casualties—Third District—June 30, 1912.*

| Date.   | Name.           | Age. | Occupation. | Residence.  | Married. | Single. | Widow. | Children. | Dependents. | Cause of death. |
|---------|-----------------|------|-------------|-------------|----------|---------|--------|-----------|-------------|-----------------|
| 1911.   |                 |      |             |             |          |         |        |           |             |                 |
| Aug. 10 | John Saur.      | 36   | Miner       | Peoria      |          | 1       |        |           |             | Falling slate   |
| Dec. 20 | John E. Evans   | 47   | Trackman    | Sparland    | 1        |         | 1      | 2         | 3           | do.             |
| 24      | Aug. Ataliano   | 40   | Laborer     | Granville   |          | 1       |        |           |             | do.             |
| 1912.   |                 |      |             |             |          |         |        |           |             |                 |
| Jan. 6  | Mark Whitehurst | 53   | Miner       | Petersburg  | 1        |         | 1      | 6         | 7           | Flying coal     |
| 20      | C. F. Johnson   | 57   | Operator    | Irish Grove | 1        |         | 1      | 6         | 2           | Fell down shaft |
| 24      | Joe Minescio    | 20   | Miner       | Wenona      |          | 1       |        |           |             | Falling rock    |
| Mar. 20 | Jos. Rinaldo    | 49   | do.         | Roanoke     | 1        |         | 1      | 3         | 4           | Falling coal    |
|         | Total           |      |             |             | 4        | 3       | 4      | 17        | 16          |                 |

*Recapitulation of fatal casualties—Third District—1912.*

| Residence.  | No. | Occupation. | No. | Cause of accident. | No. | Colliery.       | No. |
|-------------|-----|-------------|-----|--------------------|-----|-----------------|-----|
| Granville   | 1   | Laborer     | 1   | Falling coal       | 1   | Clarke          | 1   |
| Irish Grove | 1   | Miner       | 4   | Falling rock       | 1   | Illinois Valley | 1   |
| Peoria      | 1   | Operator    | 1   | Falling slate      | 3   | Johnson Valley  | 1   |
| Petersburg  | 1   | Trackman    | 1   | Fell down shaft    | 1   | Roanoke         | 1   |
| Roanoke     | 1   |             |     | Flying coal        | 1   | St. Paul        | 1   |
| Sparland    | 1   |             |     |                    |     | South Mountain  | 1   |
| Wenona      | 1   |             |     |                    |     | Wenona          | 1   |
| Total       | 7   |             | 7   |                    | 7   |                 | 7   |

*Non-fatal casualties—Third District—June 30, 1912.*

| Date.    | Name.             | Age. | Residence. | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|----------|-------------------|------|------------|----------|---------|-----------|-------------|--|-----------------|
| 1911.    |                   |      |            |          |         |           |             |  |                 |
| July 15  | Dom Bongere       | 36   | Granville  |          | 1       |           |             | Ankle injured, falling rock                | 46              |
| 20       | Mike Yeukus       | 27   | do.        | 1        |         | 3         |             | Foot injured, pit car                      | 65              |
| 22       | Barney Vario      | 26   | Taft       | 1        |         | 2         |             | Foot injured, falling rock                 | 30              |
| 25       | John Bartlemuccio | 35   | Toluca     | 1        |         | 2         |             | Leg broken, falling coal                   | 188             |
| 28       | Carlo Mora        | 25   | do.        |          | 1       |           |             | Ankle broken, falling coal                 | 158             |
| Aug. 4   | Jas. Sills        | 45   | Pottstown  | 1        |         | 3         |             | 4 Ribs broken, falling rock                | 36              |
| 8        | Wm. Drubkewicz    | 60   | Wenona     | 1        |         | 2         |             | Head injured, falling coal                 | 30              |
| 12       | Wm. Pennick       | 55   | Taft       | 1        |         | 2         |             | 3 Finger injured, falling rock             | 61              |
| 15       | Joe Zoera         | 50   | Granville  | 1        |         | 3         |             | 4 Arm injured, cage                        | 60              |
| 18       | Mat Mauce         | 38   | do.        | 1        |         | 4         |             | 5 Collar bone broken, falling coal         | 54              |
| 18       | Bart Sourlaine    | 24   | Roanoke    | 1        |         |           |             | 1 Hand injured, pit car                    | 32              |
| 24       | Ernest Hunger     | 46   | Granville  |          | 1       |           |             | Hand injured, railroad car                 | 80              |
| 24       | Dom Trogllo       | 52   | Taft       | 1        |         | 6         |             | 7 Hand broken, pit car                     | 39              |
| 30       | Louis Robetini    | 48   | Granville  |          | 1       |           |             | Head injured, falling coal                 | 34              |
| 31       | Frank Drolle      | 40   | do.        |          | 1       |           |             | Thumb injured, falling coal                | 45              |
| Sept. 16 | C. Robetinio      | 40   | do.        | 1        |         |           |             | 1 Eye injured, flying coal                 | *               |
| 18       | Anton Rondelli    | 45   | Taft       | 1        |         | 5         |             | 6 Leg injured, pick                        | 36              |
| 19       | Sam Dremi         | 36   | Sparland   | 1        |         | 4         |             | 5 Back injured, falling slate              | 70              |
| Oct. 2   | Joe Matino        | 34   | Granville  |          | 1       |           |             | Leg injured, falling coal                  | 40              |
| 4        | James Piano       | 45   | Taft       |          | 1       |           |             | Foot injured, falling rock                 | 39              |
| 7        | Wm. Pribble       | 32   | Sparland   | 1        |         | 2         |             | 3 Face and neck burned, premature blast    | 30              |
| 16       | Harry Hawthorne   | 33   | Taft       | 1        |         |           |             | 1 Foot injured, falling coal               | 60              |
| 30       | Mat Yartz         | 46   | Wenona     | 1        |         | 2         |             | 3 Leg injured, falling coal                | 42              |

*Non-fatal casualties—Third District—Concluded.*

| Date.   | Name.               | Age. | Residence. | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|---------|---------------------|------|------------|----------|---------|-----------|-------------|--|-----------------|
| 1911.   |                     |      |            |          |         |           |             |  |                 |
| Nov. 31 | Peter Lanceau       | 51   | Roanoke    | 1        | —       | —         | 1           | Foot injured, pit car                      | 35              |
| 6       | John Davis          | 35   | Sparland   | 1        | —       | —         | 1           | Hand injured, pit car                      | 30              |
| 15      | James Hand          | 28   | Granville  | 1        | —       | 1         | 2           | Foot injured, pit car                      | 30              |
| 21      | Lau Ghidua          | 27   | Pekin      | —        | 1       | —         | —           | Leg broken, machine                        | 90              |
| 27      | Joe Bachetta        | 26   | Granville  | 1        | —       | —         | 1           | Toe injured, falling rock                  | 32              |
| Dec. 11 | Frank Hutchnea      | 20   | Minonk     | —        | 1       | —         | —           | Body injured, pit car                      | 30              |
| 13      | Joe Lendotte        | 39   | Taft       | 1        | —       | 5         | 6           | Thumb injured, falling rock                | 37              |
| 15      | Alx. Stevenson      | 48   | Granville  | 1        | —       | 3         | 4           | Collar bone and ribs broken, falling rock  | 48              |
| 15      | Joseph Monjie       | 32   | Roanoke    | 1        | —       | 1         | 2           | Leg broken, pit car                        | 42              |
| 1912.   |                     |      |            |          |         |           |             |  |                 |
| Jan. 3  | Wm. Small           | 23   | do         | —        | 1       | —         | —           | Rib broken, pit car                        | 34              |
| 6       | Wm. Kenny           | 44   | Sparland   | 1        | —       | 1         | 2           | Body injured, falling coal                 | 60              |
| 17      | Luc Camatti         | 29   | Taft       | —        | 1       | —         | —           | Finger injured, sprag                      | 90              |
| 17      | Bart Zanaglia       | 33   | do         | —        | 1       | 4         | 5           | Back injured, falling rock                 | 120             |
| 17      | Jim Brack           | 28   | do         | —        | 1       | —         | 1           | do   | *               |
| 22      | Peter Faretto       | 22   | Granville  | —        | 1       | —         | —           | do   | *               |
| 24      | John Canalli        | 20   | Wenona     | —        | 1       | —         | —           | Leg broken, falling rock                   | *               |
| Feb. 6  | Alx. Pala           | 30   | Toluca     | —        | 1       | —         | —           | Back injured, falling coal                 | 48              |
| 1       | John Roseuske       | 16   | Minonk     | —        | 1       | —         | —           | Leg broken, falling coal                   | 90              |
| 14      | Albert Zalaker      | 28   | Taft       | —        | 1       | —         | —           | Toe injured, falling coal                  | 30              |
| 16      | Walter, Miliczewski | 55   | Minonk     | 1        | —       | 6         | 4           | Ankles injured, falling coal               | 30              |
| 17      | Frank Mazick        | 42   | Granville  | 1        | —       | —         | —           | Body injured, falling rock                 | 35              |
| 28      | Mike Panko          | 45   | do         | —        | 1       | 4         | 5           | Leg broken, falling coal                   | *               |
| Mar. 1  | Chirillo Ricci      | 26   | do         | —        | 1       | —         | —           | Foot injured, pit car                      | 72              |
| 1       | John Brown          | 52   | Peoria     | 1        | —       | 2         | 3           | Back injured, falling rock                 | *               |
| 16      | Henry Cramer        | 32   | Pottstown  | 1        | —       | 1         | 2           | Fingers injured, coal falling down shaft   | 30              |
| 26      | Howard Harnell      | 24   | Peoria     | —        | 1       | —         | —           | Head injured, fell off car                 | 30              |
| May 2   | Paul Pitlick        | 52   | Toluca     | 1        | —       | 4         | 5           | Leg injured, falling rock                  | 49              |
| 15      | Wilford Idle        | 21   | Peoria     | —        | 1       | —         | —           | Face and arms burned, explosion of powder  | *               |
| 15      | Joe Bartoloni       | 49   | Taft       | 1        | —       | 3         | 4           | Back injured, falling coal                 | 36              |
| 24      | John Curran         | 42   | do         | —        | 1       | —         | —           | Foot injured, pit car                      | *               |
| 25      | Louie Blodick       | 28   | do         | —        | 1       | —         | —           | Hand injured, falling rock                 | 43              |
| 28      | L. Drooth           | 23   | Pekin      | —        | 1       | —         | 1           | Foot injured, pit car                      | *               |
| June 1  | Anton Brassea       | 26   | Toluca     | —        | 1       | —         | —           | Leg injured, pit car                       | 30              |
| 4       | Guseppi Cavatorti   | 34   | Taft       | 1        | —       | 4         | 5           | Nose broken, falling coal                  | *               |
| 7       | Louis Vigneri       | 30   | Toluca     | 1        | —       | 3         | 4           | Collar bone broken, falling rock           | *               |
| 7       | Carmi Di Tomasso    | 24   | do         | —        | 1       | —         | 1           | Wrist broken, falling coal                 | *               |
| 21      | Merrino Messini     | 25   | Pekin      | —        | 1       | —         | —           | Back and legs injured, falling rock        | *               |
| 25      | Charles Humphrey    | 22   | Sparland   | —        | 1       | —         | —           | Back broken, falling rock                  | *               |
| 27      | M. Menini           | 25   | Pekin      | —        | 1       | —         | —           | Body injured, falling slate                | *               |
|         | Total               |      |            | 37       | 25      | 82        | 116         |  |                 |

\* Not returned to work.

Total number injured..... 62  
 Not returned to work, July 1, 1912..... 15

Number returned..... 47

Time lost by men returned to work—days..... 2,476  
 Average days lost..... 52.68

*Recapitulation of non-fatal casualties—Third District—1912.*

| Residence.      | No. | Occupation.       | No. | Cause of accident.      | No. | Colliery.             | No. |
|-----------------|-----|-------------------|-----|-------------------------|-----|-----------------------|-----|
| Granville ..... | 16  | Drivers .....     | 9   | Cage .....              | 1   | Berry, B. F. ....     | 15  |
| Minonk .....    | 3   | Laborers .....    | 3   | Coal fell down shaft .. | 1   | Brewster & Evans ..   | 2   |
| Pekin .....     | 4   | Machine runner .. | 1   | Falling coal .....      | 17  | Clarke .....          | 2   |
| Peoria .....    | 3   | Mine examiner ..  | 1   | Falling slate .....     | 2   | Goetz, Carl .....     | 1   |
| Pottstown ..... | 2   | Miners .....      | 47  | Falling rock .....      | 20  | Illinois Valley ..... | 5   |
| Roanoke .....   | 4   | Trackman .....    | 1   | Fell off car .....      | 1   | Minonk .....          | 3   |
| Roanoke .....   | 5   |                   |     | Flying coal .....       | 1   | Roanoke .....         | 4   |
| Taft .....      | 15  |                   |     | Machine .....           | 1   | St. Paul .....        | 16  |
| Toluca .....    | 7   |                   |     | Pick .....              | 1   | Tazewell .....        | 4   |
| Wenona .....    | 3   |                   |     | Pit cars .....          | 13  | Toluca .....          | 7   |
|                 |     |                   |     | Powder explosion .....  | 1   | Wenona .....          | 3   |
|                 |     |                   |     | Premature blast .....   | 1   |                       |     |
|                 |     |                   |     | Railroad car .....      | 1   |                       |     |
|                 |     |                   |     | Sprag .....             | 1   |                       |     |
| Total .....     | 62  |                   | 62  |                         | 62  |                       | 62  |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Third District—1912.*

| Nature of injuries.       | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percentage of injuries. |
|---------------------------|---------|----------|---------|-----------|-------------|-----------------|----------|-------------------------|
|                           |         |          |         |           |             | Total.          | Average. |                         |
| Ankle broken .....        | 1       |          | 1       |           |             | 158             | 158.00   | 1.61                    |
| Ankles injured .....      | 2       | 1        | 1       | 6         | 4           | 76              | 38.00    | 3.23                    |
| Arm injured .....         | 1       | 1        |         | 3         | 4           | 60              | 60.00    | 1.61                    |
| Back broken .....         | 1       |          | 1       |           |             |                 |          | 1.61                    |
| Back injured .....        | 7       | 5        | 2       | 13        | 18          | 274             | 68.50    | 11.29                   |
| Back and legs injured ..  | 1       |          | 1       |           |             |                 |          | 1.61                    |
| Bodies injured .....      | 4       | 2        | 2       | 1         | 3           | 125             | 41.67    | 6.45                    |
| Collar bones broken ..... | 3       | 3        |         | 10        | 13          | 102             | 51.00    | 4.84                    |
| Eye injured .....         | 1       | 1        |         |           | 1           |                 |          | 1.61                    |
| Face and arms burned ..   | 1       |          | 1       |           |             |                 |          | 1.61                    |
| Face and neck burned ..   | 1       | 1        |         | 2         | 3           | 30              | 30.00    | 1.61                    |
| Feet injured .....        | 9       | 6        | 3       | 6         | 12          | 321             | 47.29    | 14.52                   |
| Fingers injured .....     | 5       | 3        | 2       | 8         | 11          | 263             | 52.60    | 8.07                    |
| Hand broken .....         | 1       | 1        |         | 6         | 7           | 39              | 39.00    | 1.61                    |
| Hands injured .....       | 4       | 2        | 2       |           | 2           | 185             | 46.25    | 6.45                    |
| Heads injured .....       | 3       | 1        | 2       | 2         | 3           | 94              | 31.33    | 4.84                    |
| Legs broken .....         | 6       | 3        | 3       | 7         | 10          | 410             | 102.50   | 9.68                    |
| Legs injured .....        | 5       | 3        | 2       | 11        | 14          | 197             | 39.40    | 8.07                    |
| Nose broken .....         | 1       | 1        |         | 4         | 5           |                 |          | 1.61                    |
| Ribs broken .....         | 2       | 1        | 1       | 3         | 4           | 70              | 35.00    | 3.23                    |
| Toes injured .....        | 2       | 1        | 1       |           | 1           | 62              | 31.00    | 3.23                    |
| Wrist broken .....        | 1       | 1        |         |           | 1           |                 |          | 1.61                    |
| Total .....               | 62      | 37       | 25      | 82        | 116         | 2,476           | 52.68    | 100.00                  |

*Marshall County—*

| Number.             | Name of operator.                    | Postoffice address of the mines. | Output of mines in tons. |         |               |         |
|---------------------|--------------------------------------|----------------------------------|--------------------------|---------|---------------|---------|
|                     |                                      |                                  | Mine run.                | Lump.   | Other grades. | Total.  |
| SHIPPING MINES.     |                                      |                                  |                          |         |               |         |
| 1                   | Toluca Coal Co., No. 1 and 2.....    | Toluca.....                      | 279                      | 213,798 | 43,396        | 257,473 |
| 2                   | Wenona Coal Co., No. 1.....          | Wenona.....                      |                          | 84,098  | 37,008        | 121,106 |
| 3                   | Illinois Valley Coal Co., No. 1..... | Sparland.....                    | 266                      | 25,475  | 11,874        | 37,615  |
| 4                   | Illinois Valley Coal Co., No. 2..... | do.....                          | 2,802                    | 9,860   | 3,991         | 16,653  |
| 5                   | Fulton County Coal Co., No. 1.....   | do.....                          |                          | 7,552   | 1,332         | 8,884   |
| Total.....          |                                      |                                  | 3,347                    | 340,783 | 97,601        | 441,731 |
| LOCAL MINES.        |                                      |                                  |                          |         |               |         |
| 1                   | Wm. Baugh.....                       | Sparland.....                    | 2,000                    |         |               | 2,000   |
| 2                   | Loper Bros.....                      | do.....                          | 1,100                    |         |               | 1,100   |
| 3                   | R. H. Ingram.....                    | do.....                          | 1,000                    |         |               | 1,000   |
| 4                   | John Cartes.....                     | do.....                          | 300                      | 200     |               | 500     |
| 5                   | John H. Pearson.....                 | do.....                          | 300                      |         |               | 300     |
| 6                   | Wm. Rhey.....                        | do.....                          | 200                      |         |               | 200     |
| 7                   | Frisby and Davis.....                | do.....                          | 3                        | 150     |               | 153     |
| 8                   | Snell and Frisby.....                | do.....                          | 110                      |         |               | 110     |
| Total.....          |                                      |                                  | 5,013                    | 350     |               | 5,363   |
| Total—13 mines..... |                                      |                                  | 8,360                    | 341,133 | 97,601        | 447,094 |

Mines reported for 1911, 9.

New mine, 4.

Mines for 1912, 13.



## Third District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 196,528                           | 60,945          | .....                                  | 266                       | 448                       | 205                  | 653    | 257,473     | .....       | .....      | 7        | Solid.....                                    | 39                             |        | 1       |
| 107,096                           | 14,010          | .....                                  | 232                       | 180                       | 70                   | 250    | 121,106     | .....       | 1          | 3        | do.....                                       | 18                             |        | 2       |
| 37,143                            | 472             | 2,266                                  | 197                       | 40                        | 17                   | 57     | 37,615      | .....       | .....      | .....    | do.....                                       | 5                              |        | 3       |
| 16,622                            | 31              | 655                                    | 211                       | 4                         | 38                   | 42     | 7,502       | 9,151       | 1          | 5        | Both.....                                     | 3                              |        | 4       |
| 2,260                             | 6,624           | .....                                  | 185                       | 25                        | 11                   | 36     | 8,884       | .....       | .....      | .....    | Solid.....                                    | 3                              |        | 5       |
| 359,649                           | 82,082          | 2,921                                  | 218                       | 697                       | 341                  | 1,038  | 432,580     | 9,151       | 2          | 15       | .....   | .....                          | 68     |         |
| .....                             | 2,000           | 6                                      | 150                       | 2                         | .....                | 2      | 2,000       | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 1,100           | 25                                     | 240                       | 2                         | 1                    | 3      | 1,100       | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 1,000           | 50                                     | 200                       | 4                         | 1                    | 5      | 1,000       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 500             | 25                                     | 200                       | 6                         | 3                    | 9      | 500         | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 300             | 12                                     | 175                       | 3                         | 1                    | 4      | 300         | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 200             | 5                                      | 120                       | 1                         | 1                    | 2      | 200         | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 153             | 9                                      | 40                        | 2                         | 1                    | 3      | 153         | .....       | .....      | .....    | .....   | .....                          | .....  | 7       |
| .....                             | 110             | 2                                      | 40                        | 1                         | .....                | 1      | 110         | .....       | .....      | .....    | .....   | .....                          | .....  | 8       |
| .....                             | 5,363           | 134                                    | 146                       | 21                        | 8                    | 29     | 5,363       | .....       | .....      | .....    | .....   | .....                          | .....  |         |
| 359,649                           | 87,445          | 3,055                                  | 174                       | 718                       | 349                  | 1,067  | 437,943     | 9,151       | 2          | 15       | .....   | .....                          | 68     |         |

*Menard County—*

| Number.             | Name of operator.                 | Postoffice address of the mines. | Output of mines in tons. |        |               |         |
|---------------------|-----------------------------------|----------------------------------|--------------------------|--------|---------------|---------|
|                     |                                   |                                  | Mine run.                | Lump.  | Other grades. | Total.  |
| SHIPPING MINES.     |                                   |                                  |                          |        |               |         |
| 1                   | Wabash Coal Co., No. 2.....       | Athens.....                      | 25,101                   | 21,996 | 21,454        | 68,551  |
| 2                   | Tallula Coal Co., Tallula.....    | Tallula.....                     | 2,275                    | 21,809 | 23,628        | 47,712  |
| 3                   | So. Mountain Coal Co., No. 1..... | Petersburg.....                  | 20,850                   | 10,100 | 8,000         | 38,950  |
| 4                   | Greenview Mining Co., G. V.....   | Greenview.....                   | 2,975                    | 14,566 | 16,481        | 34,022  |
| Total.....          |                                   |                                  | 51,201                   | 68,471 | 69,563        | 189,235 |
| LOCAL MINES.        |                                   |                                  |                          |        |               |         |
| 1                   | Loyd Mining Co.....               | Petersburg.....                  | 10,398                   |        | 86            | 10,484  |
| 2                   | Johnson Valley Coal Co.....       | Fancy Prairie.....               | 5,734                    |        | 776           | 6,510   |
| 3                   | Ed. Hughes.....                   | Sweetwater.....                  | 300                      | 3,000  | 1,000         | 4,300   |
| 4                   | John Mallergran.....              | Petersburg.....                  | 500                      | 1,865  | 1,010         | 3,375   |
| 5                   | I. N. Biggs.....                  | Tallula.....                     |                          | 1,578  | 789           | 2,367   |
| 6                   | Peter Becker.....                 | do.....                          |                          | 2,147  | 175           | 2,322   |
| 7                   | Adolph Andree.....                | Petersburg.....                  | 1,600                    |        |               | 1,600   |
| 8                   | John P. Grosball.....             | Tice.....                        |                          | 150    | 75            | 225     |
| Total.....          |                                   |                                  | 18,532                   | 8,740  | 3,911         | 31,183  |
| Total—12 mines..... |                                   |                                  | 69,733                   | 77,211 | 73,474        | 220,418 |

Mines reported for 1911, 13.

Abandoned mines, 1.

Mines in 1912, 12.

Third District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                         | Mules. |         |
| 59,026                            | 9,525           | 3,401                                  | 140                       | 85                        | 45                   | 130    | 68,551      | .....       | .....       | .....    | Solid...                                      | .....                           | 17     | 1       |
| 41,566                            | 6,1'6           | 2,105                                  | 200                       | 47                        | 21                   | 68     | 47,712      | .....       | .....       | .....    | do.....                                       | .....                           | 6      | 2       |
| 24,841                            | 14,109          | 1,907                                  | 164                       | 58                        | 28                   | 86     | 38,950      | .....       | 1           | .....    | do.....                                       | .....                           | 6      | 3       |
| 27,745                            | 6,277           | 1,384                                  | 252                       | 32                        | 13                   | 45     | 34,022      | .....       | .....       | .....    | do.....                                       | .....                           | 4      | 4       |
| 153,178                           | 36,057          | 8,797                                  | 189                       | 222                       | 107                  | 329    | 189,235     | .....       | 1           | .....    | .....   | .....                           | 33     |         |
| .....                             | 10,484          | 70                                     | 107                       | 4                         | 2                    | 6      | 10,484      | .....       | .....       | .....    | .....   | .....                           | .....  | 1       |
| .....                             | 6,510           | 275                                    | 185                       | 6                         | 2                    | 8      | 6,510       | .....       | 1           | .....    | .....   | .....                           | .....  | 2       |
| .....                             | 4,300           | 150                                    | 225                       | 5                         | 2                    | 7      | 4,300       | .....       | .....       | .....    | .....   | .....                           | .....  | 3       |
| .....                             | 3,375           | 125                                    | 210                       | 5                         | 2                    | 7      | 3,375       | .....       | .....       | .....    | .....   | .....                           | .....  | 4       |
| .....                             | 2,367           | 118                                    | 200                       | 5                         | .....                | 5      | 2,367       | .....       | .....       | .....    | .....   | .....                           | .....  | 5       |
| .....                             | 2,322           | 120                                    | 200                       | 3                         | 1                    | 4      | 2,322       | .....       | .....       | .....    | .....   | .....                           | .....  | 6       |
| .....                             | 1,600           | 26                                     | 200                       | 4                         | 1                    | 5      | 1,600       | .....       | .....       | .....    | .....   | .....                           | .....  | 7       |
| .....                             | 225             | 40                                     | 78                        | 4                         | 1                    | 5      | 225         | .....       | .....       | .....    | .....   | .....                           | .....  | 8       |
| .....                             | 31,183          | 924                                    | 176                       | 36                        | 11                   | 47     | 31,183      | .....       | 1           | .....    | .....   | .....                           | .....  |         |
| 153,178                           | 67,240          | 9,721                                  | 180                       | 258                       | 118                  | 376    | 220,418     | .....       | 2           | .....    | .....   | .....                           | .....  |         |

*Peoria County—*

| Number.        | Name of operator.                      | Postoffice address of the mines. | Output of mines in tons. |         |               |           |
|----------------|--|----------------------------------|--------------------------|---------|---------------|-----------|
|                |  |                                  | Mine run.                | Lump.   | Other grades. | Total.    |
| SHIPPING MINES |  |                                  |                          |         |               |           |
| 1              | Clark C. & C. Co., Empire No. 2        | Peoria                           |                          | 126,707 | 126,707       | 253,414   |
| 2              | Crescent Coal Co., No. 1               | do                               | 27,364                   | 65,363  | 87,598        | 180,325   |
| 3              | Deming & Cruikshank, No. 3             | do                               | 21,500                   | 55,766  | 32,382        | 109,648   |
| 4              | Newsam Bros., Kingston, No. 3          | Kingston Mines                   | 19,567                   | 53,601  | 35,065        | 108,233   |
| 5              | Wolschlog Coöperative C. Co.           | Peoria                           | 61,117                   | 15,600  | 11,124        | 87,841    |
| 6              | Applegate & Lewis C. Co., Hanna        | Hanna City                       | 10,406                   | 26,215  | 14,882        | 51,503    |
| 7              | Brewster & Evans C. Co., Walben        | Peoria                           | 49,946                   |         |               | 49,946    |
| 8              | Olympia C. & M. Co., Olympia           | Edwards                          | 4,356                    | 27,138  | 11,406        | 42,900    |
| 9              | Collier Coöperative Coal Co.           | Bartonville                      | 12,740                   | 15,980  | 9,500         | 38,220    |
| 10             | Mapleton Coal Co., Mapleton            | Mapleton                         | 8,073                    | 10,138  | 6,013         | 24,221    |
| 11             | Lansaw Coal Co., Edwards               | Edwards                          | 8,874                    | 9,645   | 11,793        | 22,312    |
| 12             | Worcester Ldg. C. & Trans Co., K. Mine | Kingston Mine.                   | 20,052                   | 1,100   | 280           | 21,402    |
| 13             | Isaac Wantling & Co.                   | Peoria                           | 915                      | 14,899  | 5,158         | 20,972    |
| 14             | German Coal Co.                        | Mapleton                         | 15,214                   |         |               | 15,214    |
| Total          |  |                                  | 252,124                  | 422,149 | 351,878       | 1,026,151 |
| LOCAL MINES.   |  |                                  |                          |         |               |           |
| 1              | F. P. Schmidt                          | Peoria                           | 2,261                    | 41,018  | 2,082         | 45,361    |
| 2              | Winter Coal Co.                        | Bartonville                      | 27,000                   |         |               | 27,000    |
| 3              | Treasure Coal Co.                      | do                               | 4,779                    | 9,560   | 1,132         | 15,471    |
| 4              | Hubbard and Sneddon & Co.              | Peoria                           |                          | 9,574   |               | 9,574     |
| 5              | Fisher & Blank                         | do                               | 8,000                    |         |               | 8,000     |
| 6              | Mohn Coal Co.                          | do                               |                          | 7,702   |               | 7,702     |
| 7              | Limestone Coal Co.                     | do                               |                          | 5,845   | 100           | 5,945     |
| 8              | John Meyer                             | Chillicothe                      | 3,560                    |         | 1,605         | 5,165     |
| 9              | P. Martin                              | Peoria                           |                          | 5,000   | 100           | 5,100     |
| 10             | Heitzman & Smith C. Co.                | Mapleton                         | 780                      | 3,435   | 372           | 4,587     |
| 11             | Collier Bros.                          | Chillicothe                      | 4,449                    |         |               | 4,449     |
| 12             | Thomas Short                           | Brimfield                        |                          | 4,000   |               | 4,000     |
| 13             | R. Taylor & Sons.                      | do                               |                          | 3,695   | 172           | 3,867     |
| 14             | James Dalton                           | Elmwood                          |                          | 2,600   | 600           | 3,200     |
| 15             | Bell Coal Co.                          | Peoria                           |                          | 3,000   |               | 3,000     |
| 16             | Keller Coal Co.                        | Bartonville                      | 3,000                    |         |               | 3,000     |
| 17             | Fair Oaks Coal Co.                     | Peoria                           |                          | 2,500   |               | 2,500     |
| 18             | Louis A. Schmidt                       | do                               | 2,115                    |         |               | 2,115     |
| 19             | Cahill and Strong                      | Brimfield                        |                          | 2,000   | 100           | 2,100     |
| 20             | Carl Goetz                             | Peoria                           | 144                      | 1,813   | 50            | 2,007     |
| 21             | John H. Smith                          | Glasford                         | 100                      | 1,200   | 600           | 1,900     |
| 22             | Baker Bros.                            | Kingston Mines                   | 1,308                    |         |               | 1,308     |
| 23             | George Vicory                          | Peoria                           |                          | 1,275   |               | 1,275     |
| 24             | Robert Scott                           | Oak Hill                         |                          | 1,200   |               | 1,200     |
| 25             | Henning & Clarkson                     | Edwards                          | 1,060                    |         |               | 1,060     |
| 26             | Thomas Jones                           | Peoria                           | 1,019                    |         |               | 1,019     |
| 27             | J. W. Miller                           | Laura                            |                          | 1,003   |               | 1,003     |
| 28             | Frank Martin                           | Chillicothe                      |                          | 1,000   |               | 1,000     |
| 29             | Harry J. Green                         | Hanna City                       |                          | 680     | 120           | 800       |
| 30             | Fred F. Martin                         | Peoria                           | 750                      |         |               | 750       |
| 31             | Wm. Pool                               | Edwards                          |                          | 640     |               | 640       |
| 32             | Appleby & Taylor                       | do                               | 100                      | 440     |               | 540       |
| 33             | R. C. Crew                             | Chillicothe                      |                          | 515     | 10            | 525       |
| 34             | Henry Penn                             | Hanna City                       | 500                      |         |               | 500       |
| 35             | Clark and Martin                       | Brimfield                        |                          | 342     | 114           | 456       |
| 36             | Jas. Radlbeck & Pemble                 | do                               | 327                      |         | 33            | 360       |
| 37             | Wm. Simons                             | Chillicothe                      | 350                      |         |               | 350       |
| 38             | John Cannon                            | Peoria                           |                          | 325     | 10            | 335       |
| 39             | James Farrell                          | Edwards                          | 320                      |         |               | 320       |
| 40             | Staton & Blessing                      | Mapleton                         | 320                      |         |               | 320       |

## Third District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 244,414                           | 9,000           | 15,152                                 | 228                       | 199                       | 81                   | 280    | 253,414     | .....       | 1          | 2        | Solid....                                     | .....                          | .....  | 2       |
| 179,696                           | 629             | 11,132                                 | 215                       | 190                       | 58                   | 248    | 180,325     | .....       | .....      | .....    | do.....                                       | .....                          | .....  | 13      |
| 105,648                           | 4,000           | 3,605                                  | 230                       | 85                        | 50                   | 135    | 59,264      | 50,384      | .....      | .....    | Both....                                      | .....                          | .....  | 9       |
| 105,864                           | 2,379           | 6,742                                  | 246                       | 93                        | 35                   | 128    | 108,233     | .....       | .....      | .....    | Solid....                                     | .....                          | .....  | 7       |
| 78,604                            | 9,237           | 5,598                                  | 225                       | 64                        | 27                   | 91     | 87,841      | .....       | .....      | .....    | do.....                                       | .....                          | .....  | 5       |
| 48,503                            | 3,000           | 779                                    | 197                       | .....                     | 91                   | 91     | .....       | 51,503      | .....      | .....    | U. C....                                      | .....                          | .....  | 5       |
| 49,946                            | .....           | 3,453                                  | 184                       | 42                        | 29                   | 71     | 49,946      | .....       | .....      | 2        | Solid....                                     | .....                          | .....  | 6       |
| 40,765                            | 2,135           | 2,572                                  | 185                       | 67                        | 20                   | 87     | 42,900      | .....       | .....      | .....    | do.....                                       | .....                          | .....  | 8       |
| 37,020                            | 1,200           | 2,584                                  | 197                       | 30                        | 12                   | 42     | 38,220      | .....       | .....      | .....    | do.....                                       | .....                          | .....  | 5       |
| 23,721                            | 500             | 1,556                                  | 143                       | 50                        | 8                    | 58     | 24,221      | .....       | .....      | .....    | do.....                                       | .....                          | .....  | 10      |
| 21,364                            | 948             | 1,456                                  | 180                       | 28                        | 14                   | 42     | 22,312      | .....       | .....      | .....    | do.....                                       | .....                          | .....  | 3       |
| 20,652                            | 750             | 1,447                                  | 221                       | 30                        | 17                   | 47     | 21,402      | .....       | .....      | .....    | do.....                                       | .....                          | .....  | 4       |
| 20,972                            | .....           | 1,700                                  | 194                       | 35                        | 12                   | 47     | 20,972      | .....       | .....      | .....    | do.....                                       | .....                          | .....  | 3       |
| 13,818                            | 1,396           | 176                                    | 226                       | 14                        | 5                    | 19     | .....       | 15,214      | .....      | .....    | U. C....                                      | .....                          | .....  | 1       |
| 990,987                           | 35,164          | 59,952                                 | 205                       | 927                       | 459                  | 1,386  | 909,050     | 117,101     | 1          | 4        | .....   | .....                          | .....  | 64      |
| .....                             | 45,361          | 486                                    | 231                       | 7                         | 5                    | 12     | 45,361      | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 27,000          | 1,350                                  | 264                       | 18                        | 3                    | 21     | 27,000      | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 15,471          | 900                                    | 182                       | 18                        | 6                    | 24     | 15,471      | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 9,574           | 600                                    | 190                       | 14                        | 4                    | 18     | 9,574       | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 8,000           | 533                                    | 144                       | 6                         | 3                    | 9      | 8,000       | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 7,702           | 550                                    | 160                       | 12                        | 3                    | 15     | 7,702       | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 5,945           | 594                                    | 200                       | 10                        | 4                    | 14     | 5,945       | .....       | .....      | .....    | .....   | .....                          | .....  | 7       |
| .....                             | 5,165           | 30                                     | 98                        | 3                         | .....                | 3      | 5,165       | .....       | .....      | .....    | .....   | .....                          | .....  | 8       |
| .....                             | 5,100           | 380                                    | 180                       | 7                         | 3                    | 10     | 5,100       | .....       | .....      | .....    | .....   | .....                          | .....  | 9       |
| .....                             | 4,587           | 320                                    | 247                       | 4                         | 1                    | 5      | 4,587       | .....       | .....      | .....    | .....   | .....                          | .....  | 10      |
| .....                             | 4,449           | 317                                    | 180                       | 8                         | 1                    | 9      | 4,449       | .....       | .....      | .....    | .....   | .....                          | .....  | 11      |
| .....                             | 4,000           | 20                                     | 76                        | 3                         | .....                | 3      | 4,000       | .....       | .....      | .....    | .....   | .....                          | .....  | 12      |
| .....                             | 3,867           | 455                                    | 172                       | 6                         | 2                    | 8      | 3,867       | .....       | .....      | .....    | .....   | .....                          | .....  | 13      |
| .....                             | 3,200           | 100                                    | 200                       | 4                         | .....                | 4      | 3,200       | .....       | .....      | .....    | .....   | .....                          | .....  | 14      |
| .....                             | 3,000           | 240                                    | 200                       | 8                         | .....                | 8      | 3,000       | .....       | .....      | .....    | .....   | .....                          | .....  | 15      |
| .....                             | 3,000           | 200                                    | 185                       | 4                         | .....                | 4      | 3,000       | .....       | .....      | .....    | .....   | .....                          | .....  | 16      |
| .....                             | 2,500           | 208                                    | 250                       | 5                         | 2                    | 7      | 2,500       | .....       | .....      | .....    | .....   | .....                          | .....  | 17      |
| .....                             | 2,115           | 115                                    | 115                       | 5                         | 1                    | 6      | 2,115       | .....       | .....      | .....    | .....   | .....                          | .....  | 18      |
| .....                             | 2,100           | 150                                    | 300                       | 5                         | 2                    | 7      | 2,100       | .....       | .....      | .....    | .....   | .....                          | .....  | 19      |
| .....                             | 2,007           | 100                                    | 200                       | 6                         | 3                    | 9      | 2,007       | .....       | .....      | .....    | .....   | .....                          | .....  | 20      |
| .....                             | 1,900           | 80                                     | 200                       | 3                         | .....                | 3      | 1,900       | .....       | .....      | .....    | .....   | .....                          | .....  | 21      |
| .....                             | 1,308           | 56                                     | 120                       | 3                         | 1                    | 4      | 1,308       | .....       | .....      | .....    | .....   | .....                          | .....  | 22      |
| .....                             | 1,275           | 75                                     | 130                       | 2                         | .....                | 2      | 1,275       | .....       | .....      | .....    | .....   | .....                          | .....  | 23      |
| .....                             | 1,200           | 40                                     | 100                       | 2                         | .....                | 2      | 1,200       | .....       | .....      | .....    | .....   | .....                          | .....  | 24      |
| .....                             | 1,060           | 88                                     | 150                       | 2                         | .....                | 2      | 1,060       | .....       | .....      | .....    | .....   | .....                          | .....  | 25      |
| .....                             | 1,019           | 65                                     | 120                       | 3                         | .....                | 3      | 1,019       | .....       | .....      | .....    | .....   | .....                          | .....  | 26      |
| .....                             | 1,003           | .....                                  | 200                       | 3                         | .....                | 3      | 1,003       | .....       | .....      | .....    | .....   | .....                          | .....  | 27      |
| .....                             | 1,000           | 125                                    | 100                       | 4                         | .....                | 4      | 1,000       | .....       | .....      | .....    | .....   | .....                          | .....  | 28      |
| .....                             | 800             | 25                                     | 200                       | 2                         | 1                    | 3      | 800         | .....       | .....      | .....    | .....   | .....                          | .....  | 29      |
| .....                             | 750             | 37                                     | 150                       | 1                         | 1                    | 2      | 750         | .....       | .....      | .....    | .....   | .....                          | .....  | 30      |
| .....                             | 640             | .....                                  | 200                       | 2                         | 1                    | 3      | 640         | .....       | .....      | .....    | .....   | .....                          | .....  | 31      |
| .....                             | 540             | 31                                     | 156                       | 2                         | .....                | 2      | 540         | .....       | .....      | .....    | .....   | .....                          | .....  | 32      |
| .....                             | 525             | 35                                     | 263                       | 2                         | .....                | 2      | 525         | .....       | .....      | .....    | .....   | .....                          | .....  | 33      |
| .....                             | 500             | 25                                     | 150                       | 2                         | .....                | 2      | 500         | .....       | .....      | .....    | .....   | .....                          | .....  | 34      |
| .....                             | 456             | .....                                  | 160                       | 2                         | 2                    | 4      | 456         | .....       | .....      | .....    | .....   | .....                          | .....  | 35      |
| .....                             | 360             | 3                                      | 120                       | 2                         | 1                    | 3      | 360         | .....       | .....      | .....    | .....   | .....                          | .....  | 36      |
| .....                             | 350             | 25                                     | 225                       | 2                         | .....                | 2      | 350         | .....       | .....      | .....    | .....   | .....                          | .....  | 37      |
| .....                             | 335             | 17                                     | 70                        | 1                         | .....                | 1      | 335         | .....       | .....      | .....    | .....   | .....                          | .....  | 38      |
| .....                             | 320             | .....                                  | 150                       | 2                         | .....                | 2      | 320         | .....       | .....      | .....    | .....   | .....                          | .....  | 39      |
| .....                             | 320             | 28                                     | 120                       | 4                         | .....                | 4      | 320         | .....       | .....      | .....    | .....   | .....                          | .....  | 40      |

*Peoria County—*

| Number.                        | Name of operator.          | Postoffice address of the mines. | Output of mines in tons. |         |               |           |
|--------------------------------|----------------------------|----------------------------------|--------------------------|---------|---------------|-----------|
|                                |                            |                                  | Mine run.                | Lump.   | Other grades. | Total.    |
| LOCAL MINES— <i>Concluded.</i> |                            |                                  |                          |         |               |           |
| 41                             | Thomas Wantling.....       | Peoria.....                      |                          | 278     |               | 278       |
| 42                             | Fussner Bros.....          | Brimfield.....                   |                          | 260     |               | 260       |
| 43                             | Wm. M. Jones & Son.....    | Mapleton.....                    |                          | 240     |               | 240       |
| 44                             | Thomas Scardliff.....      | do.....                          | 238                      |         |               | 238       |
| 45                             | Edward Snider.....         | Edwards.....                     | 200                      |         |               | 200       |
| 46                             | H. H. Wickwire.....        | do.....                          |                          | 175     |               | 175       |
| 47                             | Frank Maire.....           | Peoria.....                      |                          | 132     |               | 132       |
| 48                             | W. P. Cramer.....          | Edwards.....                     |                          | 125     |               | 125       |
| 49                             | Jubilee College C. Co..... | Oak Hill.....                    |                          | 100     |               | 100       |
| 50                             | M. H. Wood.....            | Hanna City.....                  | 20                       |         |               | 20        |
| Total.....                     |                            |                                  | 62,700                   | 111,672 | 7,200         | 181,572   |
| Total—64 mines.....            |                            |                                  | 314,824                  | 533,821 | 359,078       | 1,207,723 |

Mines reported for 1911, 66.

New mines, 12.

Abandoned mines, 14.

Mines in 1912, 64.

*Putnam County—*

| Number.            | Name of operator.                | Postoffice address of the mines. | Output of mines in tons. |         |               |         |
|--------------------|----------------------------------|----------------------------------|--------------------------|---------|---------------|---------|
|                    |                                  |                                  | Mine run.                | Lump.   | Other grades. | Total.  |
| SHIPPING MINES.    |                                  |                                  |                          |         |               |         |
| 1                  | St. Paul Coal Co., No. 1.....    | Granville.....                   | 21,990                   | 323,338 | 68,297        | 413,625 |
| 2                  | B. F. Berry Coal Co., No. 1..... | Taft.....                        | 266                      | 179,738 | 122,902       | 302,906 |
| Total—2 mines..... |                                  |                                  | 22,256                   | 503,076 | 191,199       | 716,531 |

Mines reported in 1911, 2.

Mines in 1912, 2.

*Third District—Concluded.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                         | Mules. |         |
| .....                             | 278             | 15                                     | 120                       | 2                         | .....                | 2      | 278         | .....       | .....       | .....    | .....   | .....                           | .....  | 41      |
| .....                             | 260             | 22                                     | 175                       | 1                         | .....                | 1      | 260         | .....       | .....       | .....    | .....   | .....                           | .....  | 42      |
| .....                             | 240             | 17                                     | 45                        | 2                         | .....                | 2      | 240         | .....       | .....       | .....    | .....   | .....                           | .....  | 43      |
| .....                             | 238             | 1                                      | 40                        | 1                         | .....                | 1      | 238         | .....       | .....       | .....    | .....   | .....                           | .....  | 44      |
| .....                             | 200             | 11                                     | 55                        | 2                         | .....                | 4      | 200         | .....       | .....       | .....    | .....   | .....                           | .....  | 45      |
| .....                             | 175             | .....                                  | 106                       | 1                         | .....                | 1      | 175         | .....       | .....       | .....    | .....   | .....                           | .....  | 46      |
| .....                             | 132             | 6                                      | 35                        | 1                         | .....                | 2      | 132         | .....       | .....       | .....    | .....   | .....                           | .....  | 47      |
| .....                             | 125             | 5                                      | 75                        | 1                         | .....                | 1      | 125         | .....       | .....       | .....    | .....   | .....                           | .....  | 48      |
| .....                             | 100             | .....                                  | 50                        | 1                         | .....                | 1      | 100         | .....       | .....       | .....    | .....   | .....                           | .....  | 49      |
| .....                             | 20              | 3                                      | 50                        | 2                         | .....                | 2      | 20          | .....       | .....       | .....    | .....   | .....                           | .....  | 50      |
| .....                             | 181,572         | 8,583                                  | 130                       | 213                       | 53                   | 266    | 181,572     | .....       | .....       | 1        | .....   | .....                           | .....  | .....   |
| 990,987                           | 216,736         | 68,535                                 | 164                       | 1,140                     | 512                  | 1,652  | 1,090,622   | 117,101     | 1           | 5        | .....   | .....                           | .....  | 64      |

*Third District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                         | Mules. |         |
| 393,208                           | 20,417          | .....                                  | 258                       | 617                       | 157                  | 774    | 413,625     | .....       | 1           | 16       | U. C. ..                                      | .....                           | 70     | 1       |
| 288,515                           | 14,391          | .....                                  | 229                       | 445                       | 135                  | 580    | 302,906     | .....       | .....       | 15       | ..do..  | .....                           | 55     | 2       |
| 681,723                           | 34,808          | .....                                  | 244                       | 1,062                     | 292                  | 1,354  | 716,531     | .....       | 1           | 31       | .....   | .....                           | 125    | .....   |

*Tazewell County—*

| Number.             | Name of operator.               | Postoffice address of the mines. | Output of mines in tons. |        |               |         |
|---------------------|---------------------------------|----------------------------------|--------------------------|--------|---------------|---------|
|                     |                                 |                                  | Mine run.                | Lump.  | Other grades. | Total.  |
| SHIPPING MINES.     |                                 |                                  |                          |        |               |         |
| 1                   | Tazewell Coal Co., Shaft .....  | Pekin .....                      | 27,982                   | 35,626 | 62,598        | 126,206 |
| 2                   | Eastern Coal Co., Eastern ..... | Peoria .....                     | 23,274                   | 11,638 | 34,912        | 34,912  |
| 3                   | Ubben Coal Co., No. 1 .....     | Pekin .....                      | 8,930                    | 12,600 | 5,400         | 26,930  |
| 4                   | Champion Coal Co., No. 1 .....  | do .....                         | 1,500                    | 8,300  | 4,200         | 14,000  |
| 5                   | C. J. Off, Phenix No. 1 .....   | Peoria .....                     | 7,690                    | .....  | 64            | 7,754   |
| Total .....         |                                 |                                  | 46,102                   | 79,800 | 83,900        | 209,802 |
| LOCAL MINES.        |                                 |                                  |                          |        |               |         |
| 1                   | Lake Erie C. & M. Co. ....      | East Peoria .....                | 15,699                   | .....  | .....         | 15,699  |
| 2                   | Marion Marteness .....          | do .....                         | 9,143                    | .....  | .....         | 9,143   |
| 3                   | Grebelhausen Coal Co. ....      | do .....                         | 4,780                    | .....  | .....         | 4,780   |
| Total .....         |                                 |                                  | 29,622                   | .....  | .....         | 29,622  |
| Total—8 mines ..... |                                 |                                  | 75,724                   | 79,800 | 83,900        | 239,424 |

Mines reported for 1911, 8.

Mines for 1912, 8.

*Woodford County—*

| Number.            | Name of operator.              | Postoffice address of the mines. | Output of mines in tons. |         |               |         |
|--------------------|--------------------------------|----------------------------------|--------------------------|---------|---------------|---------|
|                    |                                |                                  | Mine run.                | Lump.   | Other grades. | Total.  |
| SHIPPING MINES.    |                                |                                  |                          |         |               |         |
| 1                  | Roanoke Coal Co., Roanoke..... | Roanoke.....                     | 214                      | 81,064  | 41,274        | 122,552 |
| 2                  | Minonk Coal Co., No. 2.....    | Minonk.....                      |                          | 32,220  | 29,124        | 61,344  |
| Total—2 mines..... |                                |                                  | 214                      | 113,284 | 70,398        | 183,896 |

Mines reported for 1911, 2.

Mines in 1912, 2.



## Third District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                         | Mules. |         |
| 111,005                           | 15,201          | 2,051                                  | 250                       | .....                     | 155                  | 155    | .....       | 126,206     | .....       | 4        | U. C. ....                                    | .....                           | 22     | 1       |
| 15,268                            | 19,644          | 1,836                                  | 231                       | 41                        | 11                   | 52     | 34,912      | .....       | .....       | .....    | Solid. ....                                   | .....                           | 4      | 2       |
| 15,930                            | 11,000          | 1,300                                  | 205                       | 35                        | 11                   | 46     | 26,930      | .....       | .....       | .....    | do. ....                                      | .....                           | 4      | 3       |
| 11,500                            | 2,500           | 650                                    | 189                       | 23                        | 6                    | 29     | 14,000      | .....       | .....       | .....    | do. ....                                      | .....                           | 2      | 4       |
| 7,690                             | 64              | 414                                    | 52                        | 40                        | 19                   | 59     | 7,754       | .....       | .....       | .....    | do. ....                                      | .....                           | 5      | 5       |
| 161,393                           | 48,409          | 6,251                                  | 185                       | 139                       | 202                  | 341    | 83,596      | 126,206     | .....       | 4        | .....   | .....                           | 37     |         |
| .....                             | 15,699          | 831                                    | 261                       | 22                        | 6                    | 28     | 15,699      | .....       | .....       | .....    | .....   | .....                           | .....  | 1       |
| .....                             | 9,143           | 407                                    | 210                       | 12                        | 3                    | 15     | 9,143       | .....       | .....       | .....    | .....   | .....                           | .....  | 2       |
| .....                             | 4,780           | 200                                    | 165                       | 6                         | 2                    | 8      | 4,780       | .....       | .....       | .....    | .....   | .....                           | .....  | 3       |
| .....                             | 29,622          | 1,438                                  | 212                       | 40                        | 11                   | 51     | 29,622      | .....       | .....       | .....    | .....   | .....                           | .....  |         |
| 161,393                           | 78,031          | 7,689                                  | 175                       | 179                       | 213                  | 392    | 113,218     | 126,206     | .....       | 4        | .....   | .....                           | 37     |         |

## Third District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                         | Mules. |         |
| 104,288                           | 18,264          | .....                                  | 253                       | 203                       | 63                   | 266    | 122,552     | .....       | 1           | 4        | Solid. ....                                   | .....                           | 38     | 1       |
| 51,294                            | 10,050          | 10                                     | 173                       | 114                       | 43                   | 157    | 61,344      | .....       | .....       | 3        | do. ....                                      | .....                           | 22     | 2       |
| 155,582                           | 28,314          | 10                                     | 212                       | 317                       | 106                  | 423    | 183,896     | .....       | 1           | 7        | .....   | .....                           | 60     |         |

*Shipping mines—recapitulation by*

| Counties.     | Number of mines. | Productions of different grades in tons. |           |         |        |         |        | Total.    | Disposition of output—tons.  |                 |
|---------------|------------------|--|-----------|---------|--------|---------|--------|-----------|------------------------------|-----------------|
|               |                  | Mine run.                                | Lump.     | Egg.    | Nut.   | Pea.    | Slack. |           | Loaded on cars for shipment. | Other purposes. |
| Marshall..... | 5                | 3,347                                    | 340,783   | .....   | 2,970  | 49,903  | 44,728 | 441,731   | 359,649                      | 82,082          |
| Menard.....   | 4                | 51,201                                   | 68,471    | 12,467  | 9,101  | 42,565  | 5,430  | 189,235   | 153,178                      | 26,057          |
| Peoria.....   | 14               | 252,124                                  | 422,149   | 61,096  | 60,184 | 202,253 | 28,345 | 1,026,151 | 990,987                      | 35,164          |
| Putnam.....   | 2                | 22,256                                   | 503,076   | 64,814  | .....  | 126,109 | 276    | 716,531   | 681,723                      | 34,808          |
| Tazewell..... | 5                | 46,102                                   | 79,800    | 29,504  | .....  | 47,017  | 7,379  | 209,802   | 161,393                      | 48,409          |
| Woodford..... | 2                | 214                                      | 113,284   | 36,061  | 3,409  | 24,707  | 6,221  | 183,896   | 155,582                      | 28,314          |
| Total.....    | 32               | 375,244                                  | 1,527,563 | 203,942 | 75,664 | 492,554 | 92,379 | 2,767,346 | 2,502,512                    | 264,834         |

*Local mines—recapitulation by*

| Counties.       | Number of mines. | Productions of different grades in tons. |           |         |        |         |         | Total.    | Disposition of output—tons.  |                 |
|-----------------|------------------|--|-----------|---------|--------|---------|---------|-----------|------------------------------|-----------------|
|                 |                  | Mine run.                                | Lump.     | Egg.    | Nut.   | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Marshall.....   | 8                | 5,013                                    | 350       | .....   | .....  | .....   | .....   | 5,363     | .....                        | 5,363           |
| Menard.....     | 8                | 18,532                                   | 8,740     | .....   | .....  | .....   | 3,911   | 31,183    | .....                        | 31,183          |
| Peoria.....     | 50               | 62,700                                   | 111,672   | .....   | .....  | .....   | 7,200   | 181,572   | .....                        | 181,572         |
| Tazewell.....   | 3                | 29,622                                   | .....     | .....   | .....  | .....   | .....   | 29,622    | .....                        | 29,622          |
| Total.....      | 69               | 115,867                                  | 120,762   | .....   | .....  | .....   | 11,111  | 247,740   | .....                        | 247,740         |
| The District... | 101              | 491,111                                  | 1,648,325 | 203,942 | 75,664 | 492,554 | 103,490 | 3,015,086 | 2,502,512                    | 512,574         |

Whole number of mines reported for 1911, 100.  
Number of new mines opened during the year, 16.  
Number of mines abandoned during the year, 15.  
Whole number of mines reported for 1912, 161.

## counties—Third District—1912.

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 2,921                                  | 218                       | 697          | 203     | 30    | 108               | 1,038  | 432,580     | 9,151       | 425,078          | .....          | 16,653             |
| 8,797                                  | 189                       | 222          | 62      | 13    | 32                | 329    | 189,235     | .....       | 189,235          | .....          | .....              |
| 59,952                                 | 205                       | 927          | 312     | 17    | 130               | 1,386  | 909,050     | 117,101     | 849,786          | 66,717         | 109,648            |
| .....                                  | 244                       | 1,062        | 197     | 11    | 84                | 1,354  | 716,531     | .....       | .....            | 716,531        | .....              |
| 6,251                                  | 185                       | 139          | 166     | ..... | 36                | 341    | 83,596      | 126,206     | 83,596           | 126,206        | .....              |
| 10                                     | 212                       | 317          | 57      | 23    | 26                | 423    | 183,896     | .....       | 183,896          | .....          | .....              |
| 77,931                                 | 205                       | 3,364        | 997     | 94    | 416               | 4,871  | 2,514,888   | 252,458     | 1,731,591        | 909,454        | 126,301            |

## counties—Third District—1912.

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 134                                    | 146                       | 21           | .....   | ..... | 8                 | 29     | 5,363       | .....       | .....            | .....          | .....              |
| 924                                    | 176                       | 36           | .....   | ..... | 11                | 47     | 31,183      | .....       | .....            | .....          | .....              |
| 8,583                                  | 130                       | 213          | .....   | 7     | 46                | 266    | 181,572     | .....       | .....            | .....          | .....              |
| 1,438                                  | 212                       | 40           | .....   | ..... | 11                | 51     | 29,622      | .....       | .....            | .....          | .....              |
| 11,079                                 | 157                       | 310          | .....   | 7     | 76                | 393    | 247,740     | .....       | .....            | .....          | .....              |
| 89,010                                 | 172                       | 3,674        | 997     | 101   | 492               | 5,264  | 2,762,628   | 252,458     | .....            | .....          | .....              |

*All mines—recapitulation by*

| Counties.     | Number of mines. | Productions of different grades in tons. |           |         |        |         |         | Total.    | Disposition of out-put—tons. |                 |
|---------------|------------------|--|-----------|---------|--------|---------|---------|-----------|------------------------------|-----------------|
|               |                  | Mine run.                                | Lump.     | Egg.    | Nut.   | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Marshall..... | 13               | 8,360                                    | 341,133   | .....   | 2,970  | 49,903  | 44,728  | 447,094   | 359,649                      | 87,445          |
| Menard.....   | 12               | 69,733                                   | 77,211    | 12,467  | 9,101  | 42,565  | 9,341   | 220,418   | 153,178                      | 67,240          |
| Peoria.....   | 64               | 314,824                                  | 533,821   | 61,096  | 60,184 | 202,253 | 35,545  | 1,207,723 | 990,987                      | 216,736         |
| Putnam.....   | 2                | 22,256                                   | 503,076   | 64,814  | .....  | 126,109 | 276     | 716,531   | 681,723                      | 34,808          |
| Tazewell..... | 8                | 75,724                                   | 79,800    | 29,504  | .....  | 47,017  | 7,379   | 239,424   | 161,393                      | 78,031          |
| Woodford..... | 2                | 214                                      | 113,284   | 36,061  | 3,409  | 24,707  | 6,221   | 183,896   | 155,582                      | 28,314          |
| Total .....   | 101              | 491,111                                  | 1,648,325 | 203,942 | 75,664 | 492,554 | 103,490 | 3,015,086 | 2,502,512                    | 512,574         |

counties—Third District—1912.

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        |           | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-----------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. |           | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |           |             |             |                  |                |                    |
| 3,055                                  | 174                       | 718          | 203     | 30    | 116               | 1,067  | 437,943   | 9,151       | .....       | .....            | .....          | .....              |
| 9,721                                  | 180                       | 258          | 62      | 13    | 43                | 376    | 220,418   | .....       | .....       | .....            | .....          | .....              |
| 68,535                                 | 164                       | 1,140        | 312     | 24    | 176               | 1,652  | 1,090,622 | 117,101     | .....       | .....            | .....          | .....              |
| .....                                  | 244                       | 1,062        | 197     | 11    | 84                | 1,354  | 716,531   | .....       | .....       | .....            | .....          | .....              |
| 7,689                                  | 195                       | 1-9          | 166     | ..... | 47                | 392    | 113,218   | 126,206     | .....       | .....            | .....          | .....              |
| 10                                     | 212                       | 317          | 57      | 23    | 26                | 423    | 183,896   | .....       | .....       | .....            | .....          | .....              |
| 89,010                                 | 172                       | 3,674        | 997     | 101   | 492               | 5,264  | 2,762,628 | 252,458     | .....       | .....            | .....          | .....              |

## FOURTH INSPECTION DISTRICT—1912.

### ANNUAL REPORT.

Counties—Fulton, Hancock, McDonough, Morgan, Schuyler, Scott.

JAMES TAYLOR, *Inspector*, Peoria.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Fulton, Hancock, McDonough, Morgan, Schuyler and Scott.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|   |           |
|---|-----------|
| Number of counties producing coal.....                | 6         |
| Number of shipping mines.....                         | 20        |
| Number of local mines.....                            | 166       |
| Number of new or reopened mines.....                  | 97        |
| Number of closed or abandoned mines.....              | 60        |
| Number of miners.....                                 | 2,684     |
| Others underground, men.....                          | 1,016     |
| Boys underground.....                                 | 42        |
| Boys above ground.....                                | 6         |
| Others above ground.....                              | 342       |
| Total number of employees.....                        | 4,095     |
| Total tons of coal produced.....                      | 2,471,286 |
| Days of active operation, all mines.....              | 146       |
| Kegs of powder used for blasting coal.....            | 120,941   |
| Tons of coal shipped.....                             | 2,220,140 |
| Tons supplied to locomotives.....                     | 33,960    |
| Tons sold to local trade.....                         | 150,405   |
| Tons consumed and wasted at the mines.....            | 66,781    |
| Number of fatal accidents.....                        | 7         |
| Number of non-fatal accidents.....                    | 5         |
| Number of employees to each fatal accident.....       | 585       |
| Number of employees to each non-fatal accident.....   | 819       |
| Tons of coal produced to each fatal accident.....     | 352,041   |
| Tons of coal produced to each non-fatal accident..... | 494,257   |
| Ratio of fatal accidents per 1,000 employees.....     | 1.71      |

The output of coal by counties for the years ended June 30, 1911, and 1912, with the increase or decrease, is shown in the following table:

| Counties,         | Total output—tons. |           | Increase. | Decrease. |
|-------------------|--------------------|-----------|-----------|-----------|
|                   | 1911.              | 1912.     |           |           |
| Fulton.....       | 1,865,222          | 2,437,173 | 571,951   | .....     |
| Hancock.....      | 2,439              | 2,920     | 481       | .....     |
| McDonough.....    | 23,999             | 23,612    | .....     | 387       |
| Morgan.....       | 1,515              | 1,085     | .....     | 430       |
| Schuyler.....     | 1,892              | 2,736     | 844       | .....     |
| Scott.....        | 5,553              | 3,760     | .....     | 1,793     |
| Total.....        | 1,900,620          | 2,471,286 | 573,276   | 2,610     |
| Net increase..... | .....              | .....     | 570,666   | .....     |

## NEW AND ABANDONED MINES.

Ninety-seven local mines are reported as new, and fifty-eight local and two shipping mines have been abandoned since last report.

## FIRE.

The tippie of the Star Coal Company's No. 2 mine, Cuba, Fulton County, was struck by lightning and burned down, May 7, 1912.

## IMPROVEMENTS.

The Big Creek Coal Company, St. David, has sunk a new air-shaft near the face of the workings, also increased the number of refuge places on haulage roadways.

Canton Coal Company, Canton, has removed the fan from the old escapement shaft to the new air-shaft, located about one mile west of the hoisting shaft. The fan is operated by electricity and is giving satisfaction.

Mr. Thomas Simmons, president of the Simmons Coal Company, Canton, has invented a very simple and inexpensive automatic device to lock the surface landing gates, when the cages are away. When the cage is at the surface landing the gate is unlocked; when the cage is moved the gate is locked and cannot be opened until the cage is stopped at the landing. The purpose of this invention is to prevent the possibility of pushing a car, or a person falling, down the shaft. Mr. Simmons has secured no patent on this invention. He says that if it will save life and limb, he desires that all shall have the privilege of using it.

Eagle Mining Company, Canton; the ventilation on the south side of shaft has been improved by the sinking of a new air shaft.

The first gasoline locomotive in this district has been installed in this mine, and is giving satisfaction to the company in handling the loaded cars in the mine, hauling from twelve to thirty-five loaded cars each trip. I find no ill effects from this gasoline motor upon the ventilation of the mine.

Roadways and aircourses have been cleaned out in part and lawful refuge places made.

Silver Creek Coal Company, Farmington, has made the escapement shaft fire-proof by replacing the wooden stairways with iron ones. The hoisting shaft and bottom parting have been made fire-proof. They have secured the necessary number of fire buckets and extinguishers.

Spoon River Coal Company, Mayton; better ventilation and safety to the men working in this mine has been secured by the sinking of a new air and escapement shaft near the working face on the north side.

Mines Nos. 1, 2 and 3, of the Star Coal Company, Cuba, have been improved by cleaning out aircourses and passageways to escapement. Lawful refuge places have been made and better ventilation secured in Nos. 1 and 2 mines.

Norris Coal Mining Company, Norris, has partly completed the cleaning out of aircourses and has installed electric lights at the bottom of hoisting shaft, and in passageways to escapement.

Alden Coal Company, Norris; the improvements at this mine have been secured by installing a water sprinkling tank made of boiler iron. This tank is filled with water under pressure. The roadways, sides, top, etc., are sprinkled. It takes but a few hours to thoroughly sprinkle all the haulage roads in the mine. This mine is the best sprinkled mine in this district.

Maplewood Colliery Company, Farmington, at the bottom of the hoisting shaft, has concreted the sides and secured the roof with iron beams.

For weighing the coal as it comes from the miners a self-registering scale has been installed which is giving general satisfaction. The company has increased the number of refuge places along the haulage way.

Monmouth Coal Company, Brereton; the ventilation in this mine has been greatly improved by the installation of an auxiliary fan at a distance of 9,000 feet (the way the air travels) from the main fan.

## COMPLAINT FILED FOR VIOLATION OF THE MINING LAW.

Complaint against the coal operators, mine managers, and mine examiners of two shipping mines were filed with the state's attorney of Fulton County, for violation of the mining law. They were bound over to the grand jury and afterward indicted and are now awaiting trial at the September term of court.

## FATAL ACCIDENTS.

October 28, 1911, Charley Insel, laborer, aged 54 years, married, employed at the Monmouth Coal Co.'s mine, Brereton, Fulton County, was engaged in sending props into the mine when he fell down the shaft and was instantly killed. He leaves a widow and three children.

November 27, 1911, John Larson, miner, aged 63 years, married, was killed by a fall of rock in the Colchester Coal Co.'s mine, Colchester, McDonough County. He leaves a widow and six children.

December 4, 1911, Arlie France, driver, aged 24 years, married, was injured, Nov. 29, 1911, by pit cars in the Star Coal Co.'s No. 2 mine, Cuba, Fulton County, and died four days later. He leaves a widow and one child.

January 25, 1912, Frank Strakes, timberman, aged 31 years, single, employed in the Maplewood Colliery Company's No. 2 mine, Farmington, Fulton County, was killed. Deceased was placing a door in position when he was struck by a trip of loaded cars and his neck broken.

February 22, 1912, William McVey, laborer, aged 37 years, married, employed by the Norris Coal Mining Company, Norris, Fulton County, was struck by a lever and killed. Deceased had gotten up on the running board of the coal chute to help coal an engine and in trying to open the door of the chute a hook broke and released a lever which struck him on the head. He leaves a widow and four children.

April 20, 1912, Clyde Irwin, driver, aged 23 years, single, was injured in the Adams & Irwin mine, Canton, Fulton County. Mr. Irwin was a member of the firm, but was driving that day. He was caught between the roof and loaded cars, receiving an injury to his spine from the effects of which he died May 17, 1912.

May 20, 1912, Joseph Smiles, trapper, aged 65 years, married, was caught between the door and loaded cars and killed, in the Maplewood Colliery Co.'s mine No. 2, Farmington, Fulton County. He leaves a widow and seven children.

Respectfully submitted,

JAMES TAYLOR,

*State Inspector of Mines, Fourth District, Peoria, Ill.*



*Fatal casualties—Fourth District—June 30, 1912.*

| Date.   | Name.              | Age. | Occupation.    | Residence.      | Married.<br>Single. | Widow. | Children. | Dependents. | Cause of death.      |
|---------|--------------------|------|----------------|-----------------|---------------------|--------|-----------|-------------|----------------------|
| 1911.   |                    |      |                |                 |                     |        |           |             |                      |
| Oct. 28 | Charley Insel..... | 54   | Laborer.....   | Brereton.....   | 1                   | 1      | 3         | 4           | Fell down shaft..... |
| Nov. 27 | John Larson.....   | 63   | Miner.....     | Colchester..... | 1                   | 1      | 6         | 6           | Falling rock.....    |
| Dec. 4  | Arlie Francis..... | 24   | Driver.....    | Cuba.....       | 1                   | 1      | 1         | 2           | Pit cars.....        |
| 1912.   |                    |      |                |                 |                     |        |           |             |                      |
| Jan. 25 | Frank Strakes..... | 31   | Timberman..... | Farmington..... | 1                   | 1      | 1         | ..          | Pit cars.....        |
| Feb. 22 | William McVey..... | 37   | Laborer.....   | Norris.....     | 1                   | 1      | 4         | 5           | Struck by lever..... |
| Apr. 20 | Clyde Irvin.....   | 23   | Driver.....    | Canton.....     | 1                   | 1      | ..        | ..          | Pit cars.....        |
| May 18  | Jas. Smiles.....   | 65   | Trapper.....   | Farmington..... | 1                   | 1      | 7         | 2           | Pit cars.....        |
|         | Total.....         |      |                |                 | 6                   | 1      | 6         | 21          | 19                   |

*Recapitulation of fatal casualties—Fourth District—1912.*

| Residence.      | No. | Occupation.    | No. | Cause of accident.   | No. | Colliery.          | No. |
|-----------------|-----|----------------|-----|----------------------|-----|--------------------|-----|
| Brereton.....   | 1   | Driver.....    | 2   | Falling rock.....    | 1   | Adams & Irwin..... | 1   |
| Canton.....     | 1   | Laborer.....   | 2   | Fell down shaft..... | 1   | Colchester.....    | 1   |
| Colchester..... | 1   | Miner.....     | 1   | Pit cars.....        | 4   | Maplewood.....     | 2   |
| Cuba.....       | 1   | Timberman..... | 1   | Struck by lever..... | 1   | Monmouth.....      | 1   |
| Farmington..... | 2   | Trapper.....   | 1   |                      |     | Norris.....        | 1   |
| Norris.....     | 1   |                |     |                      |     | Star.....          | 1   |
| Total.....      | 7   |                | 7   |                      | 7   |                    | 7   |

*Non-fatal casualties—Fourth District—June 30, 1912.*

| Date.   | Name.                | Age. | Residence.     | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|---------|----------------------|------|----------------|----------|---------|-----------|-------------|--|-----------------|
| 1911.   |                      |      |                |          |         |           |             |  |                 |
| Aug. 21 | Cash M. Hutchison... | 32   | Canton.....    | 1        | ..      | ..        | 1           | Leg broken, falling coal.....              | 90              |
| Oct. 19 | Harry C. Hindson.... | 34   | do.....        | 1        | ..      | 4         | 5           | Arm broken, falling slate.....             | 96              |
| 1912.   |                      |      |                |          |         |           |             |  |                 |
| Feb. 5  | A. M. Eyman.....     | 32   | Lewistown..... | 1        | ..      | 3         | 4           | Back injured, falling rock.....            | *               |
| 16      | Roy Durham.....      | 22   | Farmington.... | 1        | ..      | ..        | 1           | Hand injured, pit cars.....                | 38              |
| Mar. 13 | Hillis Deford.....   | 26   | do.....        | 1        | ..      | 1         | 2           | Back injured, cross bar.....               | *               |
|         | Total.....           |      | .....          | 5        | ..      | 8         | 13          |  |                 |

\* Not returned to work.

Total number injured..... 5

Number not returned to work July 1, 1912..... 2

Number returned to work..... 3

Total days lost by men returned to work..... 224

Average days lost..... 74.67

*Recapitulation of non-fatal casualties—Fourth District—1912.*

| Residence.     | No. | Occupation.     | No. | Cause of accident. | No. | Colliery.        | No. |
|----------------|-----|-----------------|-----|--------------------|-----|------------------|-----|
| Canton.....    | 2   | Driver.....     | 1   | Cross bar.....     | 1   | Big Creek.....   | 1   |
| Farmington.... | 2   | Machine helper. | 1   | Falling coal.....  | 1   | Canton.....      | 1   |
| Lewistown....  | 1   | Mine manager..  | 1   | Falling rock.....  | 1   | Eyman, A. M..... | 1   |
|                |     | Miners.....     | 1   | Falling slate..... | 1   | Maplewood.....   | 1   |
|                |     | Operator.....   | 1   | Pit car.....       | 1   | National.....    | 1   |
| Total.....     | 5   |                 | 5   |                    | 5   |                  | 5   |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Fourth District—1912.*

| Nature of injuries. | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percentage of injuries. |
|---------------------|---------|----------|---------|-----------|-------------|-----------------|----------|-------------------------|
|                     |         |          |         |           |             | Total.          | Average. |                         |
| Arm broken.....     | 1       | 1        | .....   | 4         | 5           | 96              | 96.00    | 20.00                   |
| Back injured.....   | 2       | 2        | .....   | 4         | 6           | .....           | .....    | 40.00                   |
| Hand injured.....   | 1       | 1        | .....   | .....     | 1           | 38              | 38.00    | 20.00                   |
| Leg broken.....     | 1       | 1        | .....   | .....     | 1           | 90              | 90.00    | 20.00                   |
| Total.....          | 5       | 5        | .....   | 8         | 13          | 224             | 74.67    | 100.00                  |

## Fulton County—

| Number.         | Name of operator.                      | Postoffice address of the mines. | Output of mines in tons. |         |               |           |
|-----------------|--|----------------------------------|--------------------------|---------|---------------|-----------|
|                 |  |                                  | Mine run.                | Lump.   | Other grades. | Total.    |
| SHIPPING MINES. |  |                                  |                          |         |               |           |
| 1               | Maplewood Colliery Co., No. 2          | Farmington                       | 35,134                   | 89,300  | 179,066       | 303,500   |
| 2               | Big Creek Coal Co., No. 2              | St. David                        | 56,621                   | 60,329  | 154,779       | 271,729   |
| 3               | Monmouth Coal M. Co., No. 1            | Brereton                         | 3,134                    | 71,306  | 131,990       | 206,430   |
| 4               | Big Creek Coal Co., No. 4              | Dunfermline                      | 80,244                   | 29,484  | 80,732        | 190,460   |
| 5               | Alden Coal Co., No. 6                  | Norris                           | 1,508                    | 46,107  | 118,564       | 166,179   |
| 6               | Canton Coal Mining Co.                 | Canton                           | 2,083                    | 39,879  | 116,855       | 158,817   |
| 7               | Norris Coal Mining Co., Norris         | Norris                           | 6,858                    | 57,469  | 92,004        | 156,331   |
| 8               | Eagle Mining Co., Eagle                | Canton                           | 32,487                   | 69,717  | 30,156        | 132,360   |
| 9               | Simmons Coal Co., Simmons M.           | do                               | 1,152                    | 42,605  | 82,706        | 126,463   |
| 10              | Star Coal Co., No. 1                   | Cuba                             | 6,232                    | 26,351  | 69,012        | 101,595   |
| 11              | Maplewood Coal Co., No. 1              | Farmington                       | 5,894                    | 50,473  | 29,613        | 85,980    |
| 12              | Alden Coal Co., Alden No. 5            | do                               | 6,886                    | 27,181  | 50,762        | 84,829    |
| 13              | National Coal Mining Co., National     | do                               | 1,076                    | 43,710  | 28,685        | 73,471    |
| 14              | Star Coal Co., No. 3                   | Cuba                             | do                       | 19,239  | 49,870        | 69,109    |
| 15              | Star Coal Co., No. 2                   | do                               | 17,504                   | 31,019  | 20,035        | 68,558    |
| 16              | Silver Creek Colliery Co., S. C. No. 1 | Farmington                       | 5,012                    | 21,401  | 21,922        | 48,335    |
| 17              | Star Coal Co., No. 1                   | Fiatt                            | do                       | 11,837  | 27,276        | 39,113    |
| 18              | Spoon River Coal Co., No. 1            | Mayton                           | 11,455                   | 10,649  | 5,340         | 27,444    |
| 19              | Coal Creek Mining Co., P. V. Mine      | Fairview                         | 9,929                    | 1,903   | 1,239         | 13,071    |
| 20              | Big Creek Coal Co., No. 3              | Cuba                             | 1,822                    | 5,140   | 3,022         | 9,984     |
| Total           |  |                                  | 285,031                  | 755,099 | 1,293,628     | 2,333,758 |
| LOCAL MINES.    |  |                                  |                          |         |               |           |
| 1               | Geo. Westerby                          | Farmington                       | 2,250                    | 4,500   | 1,000         | 7,750     |
| 2               | W. C. Passent                          | Ellisville                       | 6,500                    | do      | do            | 6,500     |
| 3               | Neil Baxter                            | Canton                           | do                       | 6,250   | do            | 6,250     |
| 4               | Landis & Wages                         | do                               | do                       | 5,720   | do            | 5,720     |
| 5               | Joe McLaughlin                         | do                               | do                       | 3,000   | 200           | 3,200     |
| 6               | E. G. Boder                            | Astoria                          | 3,000                    | do      | do            | 3,000     |
| 7               | Jack Walch                             | Cuba                             | 3,000                    | do      | do            | 3,000     |
| 8               | C. Q. Falkenstein                      | Astoria                          | 2,500                    | do      | do            | 2,500     |
| 9               | Adams & Irwin                          | Canton                           | do                       | 2,160   | do            | 2,160     |
| 10              | Jas. Yocum                             | Lewistown                        | do                       | 2,010   | 40            | 2,050     |
| 11              | E. C. Angle                            | Cuba                             | do                       | 2,000   | 20            | 2,020     |
| 12              | Sy Hilton                              | do                               | 1,600                    | do      | do            | 1,600     |
| 13              | O. W. Davis                            | Lewistown                        | 1,000                    | do      | 500           | 1,500     |
| 14              | Nicholas Bennett                       | Cuba                             | do                       | 1,500   | do            | 1,500     |
| 15              | E. L. Bishop                           | do                               | 1,425                    | do      | do            | 1,425     |
| 16              | A. J. Gunnett                          | Fairview                         | do                       | 1,355   | do            | 1,355     |
| 17              | Bath Bros                              | St. David                        | do                       | 1,270   | do            | 1,270     |
| 18              | W. C. Anderson                         | Canton                           | 1,100                    | do      | 150           | 1,250     |
| 19              | W. C. Morgrant                         | Canton, R. R.                    | 1,250                    | do      | do            | 1,250     |
| 20              | Henry Vonack                           | Lewistown                        | 1,200                    | do      | do            | 1,200     |
| 21              | Joseph Wilson                          | Astoria                          | 1,200                    | do      | do            | 1,200     |
| 22              | Elmer DeLong                           | Fairview                         | 1,100                    | do      | do            | 1,100     |
| 23              | Rand & Co.                             | St. David                        | do                       | 1,000   | do            | 1,000     |
| 24              | Kingsley & Bitner                      | Glasford                         | 1,000                    | do      | do            | 1,000     |
| 25              | Frank Hubble                           | Avon, R. R.                      | 1,000                    | do      | do            | 1,000     |
| 26              | Ed Clarkson                            | Fairview                         | 1,000                    | do      | do            | 1,000     |
| 27              | Dan Coplinger                          | Cuba                             | 1,000                    | do      | do            | 1,000     |
| 28              | John Johnson                           | St. David                        | do                       | 1,000   | do            | 1,000     |
| 29              | G. F. Nemmeris Bros                    | Breeds                           | do                       | 960     | do            | 960       |
| 30              | A. M. Eymann                           | Lewistown                        | 500                      | 400     | 50            | 950       |
| 31              | Joseph McCanant                        | Table Grove                      | do                       | 900     | do            | 900       |
| 32              | John Gillett                           | Glasford                         | 900                      | do      | do            | 900       |

## Fourth District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 296,380                           | 7,120           | 19,153                                 | 217                       | 250                       | 120                  | 370    | 303,500     |             | 2          |          | Solid.  | 35                             |        | 1       |
| 261,218                           | 10,511          | 7,591                                  | 230                       | 90                        | 271                  | 361    | 51,919      | 219,810     |            |          | Both.   | 2                              |        | 2       |
| 201,094                           | 5,336           | 11,055                                 | 171                       | 200                       | 92                   | 292    | 206,430     |             | 1          |          | Solid.  | 30                             |        | 3       |
| 182,014                           | 8,446           | 4,049                                  | 195                       | 41                        | 217                  | 258    | 31,953      | 158,507     |            | 1        | do.   | 27                             |        | 4       |
| 159,330                           | 6,849           | 10,067                                 | 184                       | 100                       | 75                   | 235    | 166,179     |             |            |          | Solid.  | 20                             |        | 5       |
| 157,017                           | 1,800           | 8,418                                  | 226                       | 140                       | 53                   | 193    | 158,817     |             |            | 1        | do.   | 23                             |        | 6       |
| 131,301                           | 25,030          | 8,359                                  | 186                       | 180                       | 78                   | 258    | 156,331     |             | 1          |          | do.   | 23                             |        | 7       |
| 110,656                           | 21,704          | 6,885                                  | 232                       | 120                       | 40                   | 160    | 132,360     |             |            |          | do.   | 13                             |        | 8       |
| 123,908                           | 2,555           | 6,303                                  | 205                       | 110                       | 52                   | 162    | 126,463     |             |            |          | do.   | 27                             |        | 9       |
| 97,490                            | 4,105           | 4,373                                  | 194                       | 160                       | 32                   | 192    | 101,595     |             |            |          | do.   | 20                             |        | 10      |
| 80,744                            | 5,236           | 5,575                                  | 199                       | 105                       | 47                   | 152    | 85,980      |             |            | 1        | do.   | 10                             |        | 11      |
| 82,762                            | 2,067           | 5,374                                  | 168                       | 115                       | 52                   | 167    | 84,829      |             |            |          | do.   | 14                             |        | 12      |
| 70,471                            | 3,000           | 4,463                                  | 193                       | 91                        | 28                   | 119    | 73,471      |             |            | 1        | do.   | 8                              |        | 13      |
| 66,909                            | 2,200           | 3,042                                  | 174                       | 85                        | 25                   | 110    | 69,109      |             |            |          | do.   | 7                              |        | 14      |
| 66,458                            | 2,100           | 2,876                                  | 146                       | 70                        | 20                   | 90     | 68,558      |             | 1          |          | do.   | 7                              |        | 15      |
| 46,135                            | 2,200           | 2,685                                  | 220                       | 108                       | 44                   | 152    | 31,119      | 17,216      |            |          | Both.   | 7                              |        | 16      |
| 37,693                            | 1,420           | 2,006                                  | 106                       | 80                        | 30                   | 110    | 39,113      |             |            |          | Solid.  | 8                              |        | 17      |
| 25,967                            | 1,477           | 2,100                                  | 169                       | 40                        | 19                   | 59     | 27,444      |             |            |          | do.   | 10                             |        | 18      |
| 13,071                            | .....           | 751                                    | 200                       | 17                        | 5                    | 22     | 13,071      |             |            |          | do.   | 3                              |        | 19      |
| 9,522                             | 462             | 444                                    | 42                        | 45                        | 33                   | 78     | 9,984       |             |            |          | do.   | 9                              |        | 20      |
| 2,220,140                         | 113,618         | 115,579                                | 183                       | 2,207                     | 1,333                | 3,540  | 1,938,225   | 395,533     | 5          | 4        |   | 8                              | 332    |         |
| .....                             | 7,750           | 400                                    | 200                       | 10                        | 3                    | 13     | 7,750       |             |            |          |   |                                |        | 1       |
| .....                             | 6,500           | 225                                    | 200                       | 10                        | 2                    | 12     | 6,500       |             |            |          |   |                                |        | 2       |
| .....                             | 6,250           | 456                                    | 250                       | 10                        | 2                    | 12     | 6,250       |             |            |          |   |                                |        | 3       |
| .....                             | 5,720           | 480                                    | 208                       | 8                         | 1                    | 9      | 5,720       |             |            |          |   |                                |        | 4       |
| .....                             | 3,200           | 160                                    | 200                       | 7                         | 2                    | 9      | 3,200       |             |            |          |   |                                |        | 5       |
| .....                             | 3,000           | 150                                    | 250                       | 3                         | 2                    | 5      | 3,000       |             |            |          |   |                                |        | 6       |
| .....                             | 3,000           | 125                                    | 240                       | 4                         | .....                | 4      | 3,000       |             |            |          |   |                                |        | 7       |
| .....                             | 2,500           | 125                                    | 200                       | 5                         | 1                    | 6      | 2,500       |             |            |          |   |                                |        | 8       |
| .....                             | 2,160           | 210                                    | 220                       | 8                         | 2                    | 10     | 2,160       |             | 1          |          |   |                                |        | 9       |
| .....                             | 2,050           | 125                                    | 240                       | 6                         | 3                    | 9      | 2,050       |             |            |          |   |                                |        | 10      |
| .....                             | 2,020           | 100                                    | 150                       | 3                         | .....                | 3      | 2,020       |             |            |          |   |                                |        | 11      |
| .....                             | 1,600           | 60                                     | 200                       | 2                         | .....                | 2      | 1,600       |             |            |          |   |                                |        | 12      |
| .....                             | 1,500           | 110                                    | 200                       | 5                         | 2                    | 7      | 1,500       |             |            |          |   |                                |        | 13      |
| .....                             | 1,500           | 50                                     | 150                       | 3                         | .....                | 3      | 1,500       |             |            |          |   |                                |        | 14      |
| .....                             | 1,425           | 75                                     | 200                       | 4                         | .....                | 4      | 1,425       |             |            |          |   |                                |        | 15      |
| .....                             | 1,355           | 45                                     | 312                       | 3                         | .....                | 3      | 1,355       |             |            |          |   |                                |        | 16      |
| .....                             | 1,270           | 56                                     | 168                       | 3                         | .....                | 3      | 1,270       |             |            |          |   |                                |        | 17      |
| .....                             | 1,250           | 65                                     | 175                       | 4                         | 2                    | 6      | 1,250       |             |            |          |   |                                |        | 18      |
| .....                             | 1,250           | 50                                     | 200                       | 3                         | .....                | 3      | 1,250       |             |            |          |   |                                |        | 19      |
| .....                             | 1,200           | 50                                     | 200                       | 4                         | 1                    | 5      | 1,200       |             |            |          |   |                                |        | 20      |
| .....                             | 1,200           | 50                                     | 175                       | 4                         | 1                    | 5      | 1,200       |             |            |          |   |                                |        | 21      |
| .....                             | 1,100           | 15                                     | 175                       | 4                         | 1                    | 5      | 1,100       |             |            |          |   |                                |        | 22      |
| .....                             | 1,000           | 45                                     | 175                       | 3                         | .....                | 3      | 1,000       |             |            |          |   |                                |        | 23      |
| .....                             | 1,000           | 40                                     | 175                       | 3                         | .....                | 3      | 1,000       |             |            |          |   |                                |        | 24      |
| .....                             | 1,000           | 50                                     | 200                       | 5                         | .....                | 5      | 1,000       |             |            |          |   |                                |        | 25      |
| .....                             | 1,000           | 50                                     | 300                       | 1                         | .....                | 1      | 1,000       |             |            |          |   |                                |        | 26      |
| .....                             | 1,000           | 45                                     | 175                       | 3                         | .....                | 3      | 1,000       |             |            |          |   |                                |        | 27      |
| .....                             | 1,000           | 45                                     | 175                       | 3                         | .....                | 3      | 1,000       |             |            |          |   |                                |        | 28      |
| .....                             | 960             | 44                                     | 210                       | 3                         | .....                | 3      | 960         |             |            |          |   |                                |        | 29      |
| .....                             | 950             | 60                                     | 250                       | 2                         | .....                | 2      | 950         |             |            | 1        |   |                                |        | 30      |
| .....                             | 900             | 40                                     | 175                       | 4                         | 1                    | 5      | 900         |             |            |          |   |                                |        | 31      |
| .....                             | 900             | 40                                     | 175                       | 3                         | 1                    | 4      | 900         |             |            |          |   |                                |        | 32      |

## Fulton County—

| Number.                | Name of operator    | Postoffice address of the mines. | Output of mines in tons. |       |               |        |
|------------------------|---------------------|----------------------------------|--------------------------|-------|---------------|--------|
|                        |                     |                                  | Mine run.                | Lump. | Other grades. | Total. |
| LOCAL MINES—Continued. |                     |                                  |                          |       |               |        |
| 33                     | P. Taylor           | Glasford, R. R.                  | 900                      |       |               | 900    |
| 34                     | E. S. Mason         | Canton, R. R.                    | 900                      |       |               | 900    |
| 35                     | C. F. Romden        | Cuba                             |                          | 852   | 20            | 872    |
| 36                     | John Whitehead      | Maple Mills                      |                          | 800   |               | 800    |
| 37                     | Will Johnson        | Cuba                             | 800                      |       |               | 800    |
| 38                     | Fred Nauneker       | Marietta                         | 800                      |       |               | 800    |
| 39                     | Harvey Johnson      | Breese                           | 800                      |       |               | 800    |
| 40                     | Brickert & Newberry | Lewistown                        | 750                      |       |               | 750    |
| 41                     | Silas Simpson       | Cuba, R. R.                      | 750                      |       |               | 750    |
| 42                     | Jas. Olliver        | Marietta                         | 700                      |       |               | 700    |
| 43                     | Don Valentine       | Summum                           |                          | 700   |               | 700    |
| 44                     | Ross Parr           | Astoria                          | 500                      | 200   |               | 700    |
| 45                     | Henry Vice          | Fairview                         |                          | 680   |               | 680    |
| 46                     | E. H. Miller        | Marietta                         | 650                      |       |               | 650    |
| 47                     | Lafe Swearinger     | Table Grove                      | 650                      |       |               | 650    |
| 48                     | William Taylor      | Canton                           |                          | 620   |               | 620    |
| 49                     | W. A. Sheets        | Fairview                         |                          | 615   |               | 615    |
| 50                     | Geo. H. Stambaugh   | Summum                           |                          | 600   |               | 600    |
| 51                     | The Anderson        | Marietta                         | 600                      |       |               | 600    |
| 52                     | Jess Lindsey        | Lewistown                        | 600                      |       |               | 600    |
| 53                     | W. F. McBride       | Fairview                         | 600                      |       |               | 600    |
| 54                     | John Stufflebean    | Lewistown                        | 600                      |       |               | 600    |
| 55                     | White & Price       | Canton                           | 600                      |       |               | 600    |
| 56                     | J. W. Williams      | Flatt                            | 600                      |       |               | 600    |
| 57                     | D. B. King          | Marietta                         | 600                      |       |               | 600    |
| 58                     | Chas. Taylor        | Avon                             | 600                      |       |               | 600    |
| 59                     | Joseph Bartley      | Canton                           | 600                      |       |               | 600    |
| 60                     | W. M. Robb & Son    | Norris                           | 575                      |       |               | 575    |
| 61                     | Geo. Smear          | Fairview                         |                          | 520   |               | 520    |
| 62                     | W. M. Lee           | Ipava                            |                          | 500   |               | 500    |
| 63                     | C. W. Dair          | Banner                           | 500                      |       |               | 500    |
| 64                     | W. M. Morris        | Norris                           | 500                      |       |               | 500    |
| 65                     | H. H. Muir          | Fairview                         | 500                      |       |               | 500    |
| 66                     | Guy Muchaft         | Flatt                            | 500                      |       |               | 500    |
| 67                     | M. J. Johnson       | Canton                           | 500                      |       |               | 500    |
| 68                     | Frank Kruzann       | Ipava                            | 450                      |       |               | 450    |
| 69                     | N. C. Morgan        | Cuba                             | 440                      |       |               | 440    |
| 70                     | French & Hedge      | Breeds                           |                          | 400   | 35            | 435    |
| 71                     | J. R. Lingenfelter  | Canton                           |                          | 420   |               | 420    |
| 72                     | Edward Stanley      | Maple Mills                      |                          | 410   |               | 410    |
| 73                     | G. A. Brush         | Marietta                         | 400                      |       |               | 400    |
| 74                     | Lewis Clark         | Lewisto'n R.R.                   | 400                      |       |               | 400    |
| 75                     | J. H. Fouts         | Maple Mills                      |                          | 400   |               | 400    |
| 76                     | Furnace & Dimond    | Astoria                          |                          | 398   |               | 398    |
| 77                     | Chas. Cole          | Avon, R. R.                      |                          | 350   |               | 350    |
| 78                     | L. Crusan           | Lewisto'n R.R.                   |                          |       |               |        |
| 79                     | B. R. Kelley        | Cuba                             | 350                      |       |               | 350    |
| 80                     | R. C. Green         | Ipava                            |                          | 350   |               | 350    |
| 81                     | Will Martin         | Cuba                             | 350                      |       |               | 350    |
| 82                     | Sylvester Wade      | Canton                           |                          | 320   |               | 320    |
| 83                     | Eric Emanuelson     | Maple Mills                      |                          | 300   |               | 300    |
| 84                     | Geo. Carrison       | Ipava                            |                          | 300   |               | 300    |
| 85                     | J. H. Pollett       | Cuba, R. R.                      | 300                      |       |               | 300    |
| 86                     | Dan Bollinger       | do                               | 300                      |       |               | 300    |
| 87                     | Johnson & Lee       | Breeds                           |                          | 300   |               | 300    |
| 88                     | Harry Ellsworth     | Lewistown                        | 300                      |       |               | 300    |
| 89                     | M. R. Parks         | Glasford, R. R.                  | 300                      |       |               | 300    |
| 90                     | Will Hubble         | Avon                             |                          | 300   |               | 300    |
| 91                     | Wm. Martin          | Cuba                             | 300                      |       |               | 300    |
| 92                     | James Conn          | Ipava                            | 250                      |       |               | 250    |



*Fulton County—*

| Number.                        | Name of operator.       | Postoffice address of the mines. | Output of mines in tons. |         |               |           |
|--------------------------------|-------------------------|----------------------------------|--------------------------|---------|---------------|-----------|
|                                |                         |                                  | Mine run.                | Lump.   | Other grades. | Total.    |
| LOCAL MINES— <i>Concluded.</i> |                         |                                  |                          |         |               |           |
| 93                             | Frank Foutch.....       | Astoria, R. R.....               | 250                      | 250     |               | 250       |
| 94                             | H. A. Wilson.....       | Cuba, R. R.....                  | 250                      |         |               | 250       |
| 95                             | Martin Smith.....       | Marietta.....                    | 250                      |         |               | 250       |
| 96                             | Herbert Wileoxen.....   | Lewistown.....                   | 250                      |         |               | 250       |
| 97                             | J. R. Collins.....      | Lewisto'n,R.R.....               | 250                      |         |               | 250       |
| 98                             | W. E. Hornbeck.....     | Rapatee, R. R.....               | 200                      |         |               | 200       |
| 99                             | Betner & Kingsley.....  | Glasford.....                    | 200                      |         |               | 200       |
| 100                            | E. E. Post.....         | Cuba.....                        |                          | 180     |               | 180       |
| 101                            | Dan Weise.....          | Ipava.....                       | 175                      |         |               | 175       |
| 102                            | J. D. Chute.....        | Cuba.....                        |                          | 160     |               | 160       |
| 103                            | W. M. Moustard.....     | Cuba, R. R.....                  | 150                      |         |               | 150       |
| 104                            | Sim Johnson.....        | Lewistown.....                   | 150                      |         |               | 150       |
| 105                            | John Dicks.....         | Canton.....                      | 150                      |         |               | 150       |
| 106                            | John Ratchliff.....     | Astoria.....                     |                          | 125     |               | 125       |
| 107                            | John Hall.....          | Canton, R. R. S.....             |                          | 120     |               | 120       |
| 108                            | B. F. Gaskell.....      | do.....                          |                          | 110     |               | 110       |
| 109                            | D. P. Row.....          | Table Grove.....                 | 100                      |         |               | 100       |
| 110                            | Cap Nemlin.....         | Breeds.....                      | 100                      |         |               | 100       |
| 111                            | J. R. Goodman.....      | Lewistown.....                   | 100                      |         |               | 100       |
| 112                            | Printis Weaver.....     | Avon.....                        | 50                       |         |               | 50        |
| 113                            | Clifford McFarland..... | Lewistown.....                   | 10                       | 5       |               | 30        |
| Total.....                     |                         |                                  | 56,075                   | 45,310  |               | 103,415   |
| Total all mines.....           |                         |                                  | 341,106                  | 800,409 | 610,141       | 2,437,173 |

Mines reported for 1911, 95.

New mines, 78.

Abandoned mines, 40.

Mines in 1912, 133.

*Hancock County—*

| Number.      | Name of operator.  | Postoffice address of the mines. | Output of mines in tons. |             |               |        |
|--------------|--------------------|----------------------------------|--------------------------|-------------|---------------|--------|
|              |                    |                                  | Mine run.                | Lump.       | Other grades. | Total. |
| LOCAL MINES. |                    |                                  |                          |             |               |        |
| 1            | Meredith Bros..... | Augusta.....                     |                          | 2,920 ..... |               | 2,920  |

Mines reported for 1911, 3.

Abandoned mines, 2.

Mines in 1912, 1.





*McDonough County—*

| Number.         | Name of operator.        | Postoffice address of the mines | Output of mines in tons. |        |               |        |
|-----------------|--------------------------|---------------------------------|--------------------------|--------|---------------|--------|
|                 |                          |                                 | Mine run.                | Lump.  | Other grades. | Total. |
| LOCAL MINES.    |                          |                                 |                          |        |               |        |
| 1               | Colchester Coal Co.      | Colchester                      | 3,035                    |        |               | 3,035  |
| 2               | C. F. Sweeney.           | Vermont.                        |                          | 2,400  |               | 2,400  |
| 3               | P. M. Jennings.          | Industry.                       |                          | 1,562  |               | 1,562  |
| 4               | John Wilson.             | Colchester.                     |                          | 1,546  |               | 1,546  |
| 5               | W. R. Hainlin.           | Blandinsville.                  |                          | 1,440  |               | 1,440  |
| 6               | Edward Zinn.             | Industry.                       | 1,210                    |        |               | 1,210  |
| 7               | Hocker & Barrett.        | Colchester.                     |                          | 800    |               | 800    |
| 8               | A. L. Fleming.           | do.                             |                          | 800    |               | 800    |
| 9               | Wm. Whalen.              | do.                             |                          | 720    |               | 720    |
| 10              | Wilson & Son.            | Blandinsville.                  |                          | 640    |               | 640    |
| 11              | Wayland Bros.            | Colchester.                     |                          | 620    |               | 620    |
| 12              | Frank Burdick.           | Industry.                       |                          | 560    |               | 560    |
| 13              | W. H. Robinson.          | Colchester.                     |                          | 520    |               | 520    |
| 14              | Sam Oldham.              | do.                             |                          | 520    |               | 520    |
| 15              | Willis Lee Stoneking.    | Birmingham.                     |                          | 520    |               | 520    |
| 16              | J. O. Thompson.          | Macomb.                         |                          | 410    |               | 410    |
| 17              | S. K. Walters.           | Vermont.                        |                          | 400    |               | 400    |
| 18              | Lem Williams.            | Colchester.                     |                          | 400    |               | 400    |
| 19              | Bunt Bros.               | do.                             |                          | 400    |               | 400    |
| 20              | Kipling, Foster & Stone. | do.                             |                          | 396    |               | 396    |
| 21              | Harpe & Fenton.          | do.                             |                          | 375    |               | 375    |
| 22              | M. McClure.              | do.                             |                          | 360    |               | 360    |
| 23              | Eli Hillard.             | do.                             | 240                      | 110    |               | 350    |
| 24              | J. L. Willey.            | Macomb.                         |                          | 320    |               | 320    |
| 25              | Henry Finch.             | do.                             |                          | 310    |               | 310    |
| 26              | G. E. Dickson.           | Colchester.                     |                          | 280    |               | 280    |
| 27              | Elmer Swanson.           | do.                             |                          | 280    |               | 280    |
| 28              | James Wilson.            | do.                             |                          | 271    |               | 271    |
| 29              | C. M. Icenogle.          | Macomb.                         |                          | 250    |               | 250    |
| 30              | Fred Curtis.             | do.                             |                          | 250    |               | 250    |
| 31              | Chas. Norris.            | do.                             |                          | 250    |               | 250    |
| 32              | Burney & Fox.            | Colchester.                     |                          | 240    |               | 240    |
| 33              | Amos Atkinson.           | do.                             |                          | 210    |               | 210    |
| 34              | Frank Murray.            | do.                             |                          | 185    |               | 185    |
| 35              | Frank Vogles.            | Birmingham.                     |                          | 168    |               | 168    |
| 36              | Oscar Swansen.           | Colchester.                     |                          | 150    |               | 150    |
| 37              | Curry Teel.              | Macomb.                         |                          | 140    |               | 140    |
| 38              | C. E. Waddell.           | Tennessee.                      |                          | 100    |               | 100    |
| 39              | Thomas Kipling.          | Colchester.                     |                          | 88     |               | 88     |
| 40              | Fox Bros.                | do.                             |                          | 76     |               | 76     |
| 41              | C. C. Tone.              | do.                             |                          | 60     |               | 60     |
| Total—41 mines. |                          |                                 | 3,275                    | 20,337 |               | 23,612 |

Mines reported for 1911, 37.

New mines, 17.

Abandoned mines, 13.

Mines in 1912, 41.

## Fourth District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|--------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |        |
| .....                             | 3,035           | .....                                  | 220                       | 10                        | 2                    | 12     | 3,035       | .....       | 1          | .....    | .....   | .....                          | .....  | 1      |
| .....                             | 2,400           | .....                                  | 120                       | 5                         | 1                    | 6      | 2,400       | .....       | .....      | .....    | .....   | .....                          | .....  | 2      |
| .....                             | 1,562           | .....                                  | 210                       | 4                         | 2                    | 6      | 1,562       | .....       | .....      | .....    | .....   | .....                          | .....  | 3      |
| .....                             | 1,546           | .....                                  | 130                       | .....                     | .....                | 7      | 1,546       | .....       | .....      | .....    | .....   | .....                          | .....  | 4      |
| .....                             | 1,440           | .....                                  | 140                       | 6                         | 1                    | 7      | 1,440       | .....       | .....      | .....    | .....   | .....                          | .....  | 5      |
| .....                             | 1,210           | .....                                  | 240                       | 5                         | 1                    | 6      | 1,210       | .....       | .....      | .....    | .....   | .....                          | .....  | 6      |
| .....                             | 800             | .....                                  | 300                       | 3                         | .....                | 3      | 800         | .....       | .....      | .....    | .....   | .....                          | .....  | 7      |
| .....                             | 800             | .....                                  | 120                       | 5                         | 1                    | 6      | 800         | .....       | .....      | .....    | .....   | .....                          | .....  | 8      |
| .....                             | 720             | .....                                  | 120                       | 3                         | .....                | 3      | 720         | .....       | .....      | .....    | .....   | .....                          | .....  | 9      |
| .....                             | 640             | .....                                  | 250                       | 4                         | 1                    | 5      | 640         | .....       | .....      | .....    | .....   | .....                          | .....  | 10     |
| .....                             | 620             | .....                                  | 210                       | 3                         | .....                | 3      | 620         | .....       | .....      | .....    | .....   | .....                          | .....  | 11     |
| .....                             | 560             | 32                                     | 150                       | 4                         | 1                    | 5      | 560         | .....       | .....      | .....    | .....   | .....                          | .....  | 12     |
| .....                             | 520             | .....                                  | 80                        | 4                         | 1                    | 5      | 520         | .....       | .....      | .....    | .....   | .....                          | .....  | 13     |
| .....                             | 520             | .....                                  | 110                       | 4                         | 1                    | 5      | 520         | .....       | .....      | .....    | .....   | .....                          | .....  | 14     |
| .....                             | 520             | .....                                  | 120                       | 3                         | .....                | 3      | 520         | .....       | .....      | .....    | .....   | .....                          | .....  | 15     |
| .....                             | 410             | .....                                  | 120                       | 3                         | .....                | 3      | 410         | .....       | .....      | .....    | .....   | .....                          | .....  | 16     |
| .....                             | 400             | .....                                  | 170                       | 2                         | .....                | 2      | 400         | .....       | .....      | .....    | .....   | .....                          | .....  | 17     |
| .....                             | 400             | .....                                  | 180                       | 1                         | .....                | 1      | 400         | .....       | .....      | .....    | .....   | .....                          | .....  | 18     |
| .....                             | 400             | .....                                  | 100                       | 3                         | .....                | 3      | 400         | .....       | .....      | .....    | .....   | .....                          | .....  | 19     |
| .....                             | 396             | .....                                  | 92                        | 10                        | .....                | 10     | 396         | .....       | .....      | .....    | .....   | .....                          | .....  | 20     |
| .....                             | 375             | .....                                  | 200                       | 2                         | .....                | 2      | 375         | .....       | .....      | .....    | .....   | .....                          | .....  | 21     |
| .....                             | 360             | .....                                  | 100                       | 2                         | 1                    | 3      | 360         | .....       | .....      | .....    | .....   | .....                          | .....  | 22     |
| .....                             | 350             | .....                                  | 175                       | 2                         | .....                | 2      | 350         | .....       | .....      | .....    | .....   | .....                          | .....  | 23     |
| .....                             | 320             | 6                                      | 110                       | 2                         | .....                | 2      | 320         | .....       | .....      | .....    | .....   | .....                          | .....  | 24     |
| .....                             | 310             | .....                                  | 105                       | 2                         | .....                | 2      | 310         | .....       | .....      | .....    | .....   | .....                          | .....  | 25     |
| .....                             | 280             | .....                                  | 100                       | 3                         | .....                | 3      | 280         | .....       | .....      | .....    | .....   | .....                          | .....  | 26     |
| .....                             | 280             | .....                                  | 180                       | 1                         | .....                | 1      | 280         | .....       | .....      | .....    | .....   | .....                          | .....  | 27     |
| .....                             | 271             | .....                                  | 220                       | 1                         | 1                    | 2      | 271         | .....       | .....      | .....    | .....   | .....                          | .....  | 28     |
| .....                             | 250             | 8                                      | 120                       | 6                         | .....                | 6      | 250         | .....       | .....      | .....    | .....   | .....                          | .....  | 29     |
| .....                             | 250             | .....                                  | 80                        | 2                         | .....                | 2      | 250         | .....       | .....      | .....    | .....   | .....                          | .....  | 30     |
| .....                             | 250             | 1                                      | 120                       | 3                         | .....                | 3      | 250         | .....       | .....      | .....    | .....   | .....                          | .....  | 31     |
| .....                             | 240             | .....                                  | 150                       | 2                         | .....                | 2      | 240         | .....       | .....      | .....    | .....   | .....                          | .....  | 32     |
| .....                             | 210             | .....                                  | 70                        | 2                         | .....                | 2      | 210         | .....       | .....      | .....    | .....   | .....                          | .....  | 33     |
| .....                             | 185             | .....                                  | 100                       | 1                         | .....                | 1      | 185         | .....       | .....      | .....    | .....   | .....                          | .....  | 34     |
| .....                             | 168             | .....                                  | 90                        | 1                         | .....                | 1      | 168         | .....       | .....      | .....    | .....   | .....                          | .....  | 35     |
| .....                             | 150             | .....                                  | 110                       | 1                         | 1                    | 2      | 150         | .....       | .....      | .....    | .....   | .....                          | .....  | 36     |
| .....                             | 140             | 3                                      | 100                       | 1                         | .....                | 1      | 140         | .....       | .....      | .....    | .....   | .....                          | .....  | 37     |
| .....                             | 100             | .....                                  | 20                        | 3                         | .....                | 3      | 100         | .....       | .....      | .....    | .....   | .....                          | .....  | 38     |
| .....                             | 88              | .....                                  | 50                        | 2                         | .....                | 2      | 88          | .....       | .....      | .....    | .....   | .....                          | .....  | 39     |
| .....                             | 76              | .....                                  | 62                        | 2                         | .....                | 2      | 76          | .....       | .....      | .....    | .....   | .....                          | .....  | 40     |
| .....                             | 60              | .....                                  | 40                        | 2                         | .....                | 2      | 60          | .....       | .....      | .....    | .....   | .....                          | .....  | 41     |
| .....                             | 23,612          | 50                                     | 134                       | 132                       | 15                   | 147    | 23,612      | .....       | 1          | .....    | .....   | .....                          | .....  | .....  |

*Morgan County—*

| Number.     | Name of operator. | Postoffice address of the mines. | Output of mines in tons. |       |               |        |
|-------------|-------------------|----------------------------------|--------------------------|-------|---------------|--------|
|             |                   |                                  | Mine run.                | Lump. | Other grades. | Total. |
| LOCAL MINES |                   |                                  |                          |       |               |        |
| 1           | Fisher Bros.....  | Murrayville....                  | 1,085 .....              | ..... | .....         | 1,085  |

Mines reported for 1911, 1.

Mines in 1912, 1.

*Schuyler County—*

| Number.             | Name of operator.  | Postoffice address of the mines. | Output of mines in tons. |       |               |        |
|---------------------|--------------------|----------------------------------|--------------------------|-------|---------------|--------|
|                     |                    |                                  | Mine run.                | Lump. | Other grades. | Total. |
| LOCAL MINES.        |                    |                                  |                          |       |               |        |
| 1                   | Joe Thompson ..... | Rushville .....                  | 2,126                    | ..... | .....         | 2,126  |
| 2                   | E. R. Lauery ..... | Sheldon Grove .....              | 300                      | ..... | .....         | 300    |
| 3                   | John Brauman ..... | do .....                         | 200                      | ..... | .....         | 200    |
| 4                   | A. L. Reed .....   | do .....                         | 110                      | ..... | .....         | 110    |
| Total—4 mines ..... |                    |                                  | 2,736                    | ..... | .....         | 2,736  |

Mines reported for 1911, 2.

New mines, 2.

Mines in 1912, 4.



*Scott County—*

| Number.            | Name of operator.        | Postoffice address of the mines. | Output of mines in tons. |       |               |        |
|--------------------|--------------------------|----------------------------------|--------------------------|-------|---------------|--------|
|                    |                          |                                  | Mine run.                | Lump. | Other grades. | Total. |
| LOCAL MINES.       |                          |                                  |                          |       |               |        |
| 1                  | McLaughlin Coal Co. .... | Alsey .....                      | 1,080                    | ..... | .....         | 1,080  |
| 2                  | J. & J. Hemsworth.....   | do.....                          | .....                    | 920   | .....         | 920    |
| 3                  | George Northrop.....     | do.....                          | .....                    | 620   | .....         | 620    |
| 4                  | J. A. Jones.....         | Winchester.....                  | .....                    | 620   | .....         | 620    |
| 5                  | Pat McGuire.....         | Alsey.....                       | .....                    | 310   | .....         | 310    |
| 6                  | Geo. Sellars.....        | Winchester.....                  | .....                    | 210   | .....         | 210    |
| Total—6 mines..... |                          |                                  | 1,080                    | 2,680 | .....         | 3,760  |

Mines reported for 1911, 11.

Abandoned mines, 5.

Mines in 1912, 6.

*Shipping mines—recapitulation by*

| Counties.   | Number of mines. | Productions of different grades in tons. |         |         |        |         |        | Total.    | Disposition of out-put—tons. |                 |
|-------------|------------------|--|---------|---------|--------|---------|--------|-----------|------------------------------|-----------------|
|             |                  | Mine run.                                | Lump.   | Egg.    | Nut.   | Pea.    | Slack. |           | Loaded on cars for shipment. | Other purposes. |
| Fulton..... | 20               | 285,031                                  | 755,099 | 610,141 | 50,333 | 590,382 | 42,772 | 2,333,758 | 2,220,140                    | 113,618         |

*Fourth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| .....                             | 1,080           | .....                                  | 192                       | 3                         | 1                    | 4      | 1,080       | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 920             | .....                                  | 160                       | 2                         | .....                | 2      | 920         | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 620             | .....                                  | 200                       | 3                         | .....                | 3      | 620         | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 620             | .....                                  | 172                       | 2                         | .....                | 2      | 620         | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 310             | .....                                  | 180                       | 2                         | .....                | 2      | 310         | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 210             | .....                                  | 120                       | 2                         | .....                | 2      | 210         | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 3,760           | .....                                  | 171                       | 14                        | 1                    | 15     | 3,760       | .....       | .....      | .....    | .....   | .....                          | .....  |         |

*counties—Fourth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       |                   | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. | All above ground. |        |             |             |                  |                |                    |
| 115,579                                | 183                       | 2,207        | 1,016   | 42    | 275               | 3,540  | 1,938,225   | 395,533     | 1,823,234        | .....          | 510,524            |

*Local mines—recapitulation by*

| Counties.       | Number of mines. | Productions of different grades in tons. |         |         |        |         |        | Total.    | Disposition of out-put—tons. |                 |
|-----------------|------------------|--|---------|---------|--------|---------|--------|-----------|------------------------------|-----------------|
|                 |                  | Mine run.                                | Lump.   | Egg.    | Nut.   | Pea.    | Slack. |           | Loaded on cars for shipment. | Other purposes. |
| Fulton.....     | 113              | 56,075                                   | 45,310  | .....   | .....  | .....   | 2,030  | 103,415   | .....                        | 103,415         |
| Hancock.....    | 1                | .....                                    | 2,920   | .....   | .....  | .....   | .....  | 2,920     | .....                        | 2,920           |
| McDonough...    | 41               | 3,275                                    | 20,337  | .....   | .....  | .....   | .....  | 23,612    | .....                        | 23,612          |
| Morgan.....     | 1                | 1,085                                    | .....   | .....   | .....  | .....   | .....  | 1,085     | .....                        | 1,085           |
| Schuyler.....   | 4                | 2,736                                    | .....   | .....   | .....  | .....   | .....  | 2,736     | .....                        | 2,736           |
| Scott.....      | 6                | 1,080                                    | 2,680   | .....   | .....  | .....   | .....  | 3,760     | .....                        | 3,760           |
| Total.....      | 166              | 64,251                                   | 71,247  | .....   | .....  | .....   | 2,030  | 137,528   | .....                        | 137,528         |
| The District... | 186              | 349,282                                  | 826,346 | 610,141 | 50,333 | 590,382 | 44,802 | 2,471,286 | 2,220,140                    | 251,146         |

Whole number of mines reported for 1911, 149.

Number of new mines opened during the year, 97.

Number of mines abandoned during the year, 60.

Whole number of mines reported for 1912, 186.

*All mines—recapitulation by*

| Counties.     | Number of mines. | Productions of different grades in tons. |         |         |        |         |        | Total.    | Disposition of out-put—tons. |                 |
|---------------|------------------|--|---------|---------|--------|---------|--------|-----------|------------------------------|-----------------|
|               |                  | Mine run.                                | Lump.   | Egg.    | Nut.   | Pea.    | Slack. |           | Loaded on cars for shipment. | Other purposes. |
| Fulton... ..  | 133              | 341,106                                  | 800,409 | 610,141 | 50,333 | 590,382 | 44,802 | 2,437,173 | 2,220,140                    | 217,033         |
| Hancock.....  | 1                | .....                                    | 2,920   | .....   | .....  | .....   | .....  | 2,920     | .....                        | 2,920           |
| McDonough...  | 41               | 3,275                                    | 20,337  | .....   | .....  | .....   | .....  | 23,612    | .....                        | 23,612          |
| Morgan.....   | 1                | 1,085                                    | .....   | .....   | .....  | .....   | .....  | 1,085     | .....                        | 1,085           |
| Schuyler..... | 4                | 2,736                                    | .....   | .....   | .....  | .....   | .....  | 2,736     | .....                        | 2,736           |
| Scott.....    | 6                | 1,080                                    | 2,680   | .....   | .....  | .....   | .....  | 3,760     | .....                        | 3,760           |
| Total.....    | 186              | 349,282                                  | 826,346 | 610,141 | 50,333 | 590,382 | 44,802 | 2,471,286 | 2,220,140                    | 251,146         |



*counties—Fourth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 5, 156                                 | 141                       | 315          | .....   | ..... | 53                | 368    | 103, 415    | .....       | .....            | .....          | .....              |
| .....                                  | 210                       | 6            | .....   | ..... | 1                 | 7      | 2, 920      | .....       | .....            | .....          | .....              |
| 50                                     | 134                       | 132          | .....   | ..... | 15                | 147    | 23, 612     | .....       | .....            | .....          | .....              |
| .....                                  | 196                       | 6            | .....   | ..... | 2                 | 8      | 1, 085      | .....       | .....            | .....          | .....              |
| 156                                    | 129                       | 9            | .....   | ..... | 1                 | 10     | 2, 736      | .....       | .....            | .....          | .....              |
| .....                                  | 171                       | 14           | .....   | ..... | 1                 | 15     | 3, 760      | .....       | .....            | .....          | .....              |
| 5, 362                                 | 141                       | 482          | .....   | ..... | 73                | 555    | 137, 528    | .....       | .....            | .....          | .....              |
| 120, 941                               | 146                       | 2, 689       | 1, 016  | 42    | 348               | 4, 095 | 2, 075, 753 | 395, 533    | .....            | .....          | .....              |

*counties—Fourth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 120, 735                               | 148                       | 2, 522       | 1, 016  | 42    | 328               | 3, 908 | 2, 041, 640 | 395, 533    | .....            | .....          | .....              |
| .....                                  | 210                       | 6            | .....   | ..... | 1                 | 7      | 2, 920      | .....       | .....            | .....          | .....              |
| 50                                     | 134                       | 132          | .....   | ..... | 15                | 147    | 23, 612     | .....       | .....            | .....          | .....              |
| .....                                  | 196                       | 6            | .....   | ..... | 2                 | 8      | 1, 085      | .....       | .....            | .....          | .....              |
| 156                                    | 129                       | 9            | .....   | ..... | 1                 | 10     | 2, 736      | .....       | .....            | .....          | .....              |
| .....                                  | 171                       | 14           | .....   | ..... | 1                 | 15     | 3, 760      | .....       | .....            | .....          | .....              |
| 120, 941                               | 146                       | 2, 689       | 1, 016  | 42    | 348               | 4, 095 | 2, 075, 753 | 395, 533    | .....            | .....          | .....              |

## FIFTH INSPECTION DISTRICT—1912.

### ANNUAL REPORT.

Counties—Christian, Macon, Moultrie, Shelby, Vermilion.

W. S. BURRIS, *Inspector*, Danville.

*Hon. Martin Boll, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Christian, Macon, Moultrie, Shelby and Vermilion.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|  |           |
|--|-----------|
| Number of counties producing coal .....                | 5         |
| Number of shipping mines .....                         | 34        |
| Number of local mines .....                            | 37        |
| Number of new or reopened mines .....                  | 14        |
| Number of closed or abandoned mines .....              | 10        |
| Number of miners .....                                 | 4,337     |
| Others underground, men .....                          | 1,994     |
| Boys underground .....                                 | 121       |
| Boys above ground .....                                | 4         |
| Others above ground .....                              | 562       |
| Total number of employees .....                        | 7,018     |
| Total tons of coal produced .....                      | 5,174,966 |
| Days of active operation, all mines .....              | 178       |
| Kegs of powder used for blasting coal .....            | 157,000   |
| Tons of coal shipped .....                             | 4,397,168 |
| Tons supplied to locomotives .....                     | 71,712    |
| Tons sold to local trade .....                         | 471,537   |
| Tons consumed and wasted at the mines .....            | 234,549   |
| Number of fatal accidents .....                        | 21        |
| Number of non-fatal accidents .....                    | 92        |
| Number of employees to each fatal accident .....       | 334       |
| Number of employees to each non-fatal accident .....   | 76        |
| Tons of coal produced to each fatal accident .....     | 246,427   |
| Tons of coal produced to each non-fatal accident ..... | 56,250    |
| Ratio of fatal accidents per 1,000 employees .....     | 2.99      |

The table gives the total tonnage by counties for the years 1911 and 1912, with the increase or decrease in each county:

| Counties.         | Total output—tons. |           | Increase. | Decrease. |
|-------------------|--------------------|-----------|-----------|-----------|
|                   | 1911.              | 1912.     |           |           |
| Christian.....    | 1,206,467          | 1,346,191 | 139,724   | .....     |
| Macon.....        | 255,764            | 271,626   | 15,862    | .....     |
| Moultrie.....     | 11,573             | 54,162    | 42,589    | .....     |
| Shelby.....       | 92,281             | 128,544   | 36,263    | .....     |
| Vermilion.....    | 3,270,380          | 3,374,443 | 104,063   | .....     |
| Total.....        | 4,836,465          | 5,174,966 | 338,501   | .....     |
| Net increase..... | .....              | .....     | 338,501   | .....     |

## NEW MINES.

The Mission Mining Company has opened a new mine adjoining the strip pit. This mine is known as No. 2, is a drift, and the coal is handled over the tippie of the No. 1 mine. The company has also sunk another slope, known as No. 3. This mine is fireproof, having concrete walls on side of entry, 6 in. x 12 in. steel beams, placed four feet apart, and between beams, concrete. This includes the slope and cage room. They have an electric hoist, pulling one car up the incline and dumping into Shaker screen where the coal is graded as follows: Six inch lump, two inch lump, from six to two inch egg, two inch and one inch screenings, two and one inch nut. The electric power is furnished by the Danville Electric Light Company.

In addition to the above one shipping and eleven locals are reported this year as new mines.

## ABANDONED MINES.

The Tilton Coal Company, Tilton, Vermilion County, abandoned its Star mine. The Oakwood Coal Company, Oakwood, has abandoned its No. 1 mine for the present time. This mine may be reopened in the future. Two other shipping and six local mines have been abandoned, or not operated during the year.

## IMPROVEMENTS IN MINES.

The Assumption Coal Mining Company, Assumption, Christian Co., has made some good and permanent improvements.

The bottom of the main or hoisting shaft has been timbered with steel I-beams 6x15 inches, from 14 to 18 feet in length, twenty feet on each side of shaft, doing away with any timbers or center props, leaving a clear way on each side of shaft eighteen feet.

There has been installed a new Deming Triplex electric driven pump for raising water to the surface, a distance of 1,000 feet. The motor driving the pump is a continuous generator, compound wound, with a speed of 800 revolutions per minute.

The escape shaft is equipped with a pair of Litchfield hoisting engines, twin connected, cylinder 18 inches bore, 24 inches stroke and two drives 4 feet in diameter, 2 feet by 4 inches face, with flanges 7 inches high to hoist 1,000 feet, with three layers of  $\frac{7}{8}$  wire rope. One drive keyed to shaft and the other loose on the shaft being engaged by a toothed clutch so as to be thrown out of gear when desired for changing the effective length of rope for hoisting to or from different levels. Each drive has a break housing turned smooth in boring mill. The shifting arrangement for the toothed clutch consists of a hand lever similar to the reversing lever, acting on a notched quadrant. Everything connected with these engines are first-class in every particular.

The engine room at escape is fireproof except the roof. The escape shaft has been retimbered with 6x8 timbers for a distance of 25 feet from top. Surface arrangements have been remodeled along the line of safety and convenience, making it possible to hoist men if necessary without interfering with the ventilation while hoisting them. This we think is very important in a gaseous mine.

There have been quite a lot of improvements made on the bottom of the escape shaft. Thus we think this mine is the best equipped at the escape shaft for getting men to the surface of any mine in Christian county, and, perhaps, in the State.

The Christian County Coal Company has made considerable improvements. The most important among them is a new Sirocca fan. The fan is 7 feet long and has 64 blades 70 inches long. It is run by a new Ridgway engine, cylinder 13 inches, length of stroke 14 inches. Under good conditions at 225 revolutions it will produce 125,000 cubic feet of air per minute.

The fan and engine have proved very satisfactory to the management. The air at the present time in this mine is good. The fan house is of concrete, making it fireproof. There has been added forty new pit cars, and new coal bins have been constructed.

The Stonington Coal Company has also made improvements. The management put in a new Sirocco fan, about the same size as the Christian County Coal Company's, with a Ridgway engine, which gives plenty of air for the mine and has proved satisfactory to the management; also installed one Tubular Brownell boiler, a new generator, about forty pit cars and a new Goodman motor. There have been some needed improvements below ground.

Taking it all in all we feel, that, while the improvements in Christian County may not have been so marked as in some other counties, they have been along a line much needed and will be permanent.

#### IMPROVEMENTS AT BUNSEN COAL COMPANY'S MINES DURING YEAR ENDING JUNE 30, 1912.

##### KELLEY NO. 2.

Installation of 12 chain mining machines completed.

Work of installing 1 150 H. P. Tubular boiler and 100,000 cu. ft. capacity ventilating fan with engine begun.

Eighty wood mine cars purchased.

Shaker screens were replaced with set of gravity screens.

Engine house remodeled.

An outside rock hoist and trestle built.

##### KELLEY NO. 3.

Installation of 9 chain mining machines, begun in 1911, completed this year.

Fifty wood mine cars purchased.

Outside rock hoist and trestle put up.

Installation begun of 1 72 in. x 18 in. Tubular boiler.

##### KELLEY NO. 4.

Shaft bottom extended.

Cage room retimbered.

Fireproof pump room built.

Work begun on installation of 1 72 in. x 18 in. Tubular boiler.

One 75 K. W. generator with engine, and extension to boiler house.

Gravity screens put in to replace shaker screens formerly used.

One hundred wood mine cars bought.

Large amount of haulage extension and improvement.

One outside rock hoist and trestle built.

One 60-gallon double chemical fire engine purchased.

##### VERMILION.

Completed installation of 17 chain mining machines.

Put down a 9 in. x 14 in. concrete escapement and air shaft.

Installed two self-dumping Olsen cages.

Changed screens from shaker to gravity type.

Built outside rock hoist and trestle.

Built concrete powder house.

Purchased one 60-gallon double chemical fire engine.

FIREPROOF ESCAPEMENT SHAFT AND UPCAIST AIRWAY AT THE VERMILION MINE  
OF THE BUNSEN COAL CO., NEAR WESTVILLE.

The Bunsen Coal Co., of Westville, Ill., a subsidiary of the United States Steel Corporation, broke ground on Oct. 5, 1911, for the construction of a concrete lined shaft combining an escapeway for the men and an upcast airway for ventilating purposes. The Vermilion mine has a daily output of 2,750 tons. The development at the present time comprises about 500 acres of the Grape Creek coal seam. The point chosen for the shaft location is 3,500 feet from the hoisting shaft. Departing from the ordinary procedure of contracting the work and in order to obtain the experience during construction, the company purchased all equipment necessary and completed the work with their own force. Work was stopped during the winter months and started again in April, 1912. The shaft lining walls being completed on June 1. The method of sinking and design adopted combine the new features of a rectangular shaft of concrete and the sinking of same through the soft stratas by means of a steel shoe and the weight of the concrete lining walls.

## DESCRIPTION OF SHAFT.

The shaft is of rectangular design and measures 8 feet in width by 13 feet in length in the clear between the concrete lining walls. The concrete walls have a thickness of 21 inches from the top of coping to steel shoe, a distance of 52 feet. From this point to the bottom of shaft the walls have an average thickness of 12 inches. The total depth of shaft is 205 feet to the archway landings at the bottom. A sump with a depth of 3 feet and 6 inches is provided. The shaft has an opening area of 104 square feet. The steel stairway and landings occupy a width of 4 feet and 10 inches and extends the length of the shaft. The pattern is of open design and only a small percentage of the space taken up would effect the ventilation and upcast which goes through the stairway.

Two reenforced concrete archways are provided at the shaft bottom, one for the upcast air from the mine and the other from entrance to the stairway. Each arch has a span of 7 feet and a height of 9 feet from landing to the top of crown, both arches extend a distance of 6 feet from the shaft lining. The sump is floored over and supported on 3-inch I-beams.

The steel shoe for the sinking of shaft, from the surface of ground to the solid strata, is of rectangular design, forming an open caisson, and measured when set up ready for sinking 11 feet 6 inches by 16 feet 6 inches. The side and end plates are one-half inch thick.

The shoe before riveting together comprised six sections and were connected up with  $\frac{1}{2}$  inch by 12 inch by 26 inch splice plates thoroughly riveted. The rivet heads were all countersunk on the back of shoe to lessen the friction when sinking. The four rectangular corners were all stiffened with the same size plates. The shoe has a vertical depth on the back line of the lining of 26 inches, and run on an angle of 45 degrees from the cutting edge to the inner side of the lining at top of shoe. The two side pieces between splice connections are each 10 feet long and the four corner sections measure each 5 feet 9 inches on the end and 3 feet 3 inches on the side. The opening at top of shoe provides for a concrete lining wall 15 inches thick. The side and end plates at the top between the splice connections are all stiffened with 3 inch by 3 inch by  $\frac{1}{2}$  inch angles. To prevent the top from buckling or spreading, 1 inch by 15 inch bolts are placed every 3 feet around the entire shoe, and have countersunk heads on the back. Between the horizontal bolts and extending around the entire shoe and spaced 3 feet apart, 1 inch diameter by 6 feet in length vertical rods were used to tie in the shoe to the first section of concrete lining, the top of these rods were bent in U form to receive similar rods which were placed as each section of lining wall was poured and extended to the top of coping. The shoe when completed had a total weight of 7,000 pounds.

Wooden forms were used for all of the concrete lining work and were made up of 2 inch by 10 inch surfaced plank carefully put together and stiffened vertically with 4 inch by 6 inch strips. The forms were 6 feet high, two side and two end pieces formed the units for the entire section. An inside and outside form was necessary for the placing of the concrete until the shoe was landed on solid strata. These forms remained in position at the top of the shaft until this portion of the work was completed. To readily release the concrete when set and remove the forms when necessary, all of the connecting joints had beveled edges and were brought into position by wedging. The sides and ends were well braced to hold in the correct position.

From the shoe to the shaft bottom an inside form only was necessary, the concrete filling into the sides of the rock excavation or against the 2-inch curbing timbers. No forms were removed from the concrete until it had set for at least two days.

The steel stairway is of zig-zag pattern and together with the landings occupy a space longitudinally in the shaft for a width of 4 feet 10 inches. Each flight rises on a 38° angle from the vertical, and is 11 feet long. The separate flights including the landings are supported on 8 inch channels weighing 11¼ pounds per foot; placed crosswise in the shaft and are secured in the concrete side walls by placing in pockets and grouting the ends which have a bearing of 6 inches in the wall. These channels are placed 2 feet from the end walls and are spaced vertically 6 feet apart, alternating for each flight.

The stair stringers are ¼ inch by 7 inches deep. The treads are ¼ inch by 11 inches by 27 inches with checkered surfaces and are supported on 1½ inch by ¼ inch angles riveted to the stringers. The rise between treads is 8 inches. The landing plates are 4 inches by 25 inches by 58 inches and are also checkered on the surface. Three lugs of 3½ inch by 5 inch by ¾ inch angle iron are riveted to the plate and fastened to the concrete wall by means of 5/8 inch by 5 inch expansion bolts well drawn up. The hand railing is made up of two lines of 1½ inch pipe, the uprights are bolted to the stair stringers and connected to each line of railing. The total weight per vertical foot of stairway and landings, not including the channel supports, is 95 lbs.

Before placing any steel work two coats of paint was applied on the surface and another coat in the shaft upon completion of the work.

The cutting of the pocket holes in the concrete and the drilling of same for the bolt holes was all done by hand. The men erecting temporary scaffolds as each flight was placed, working from the bottom upwards. This stairway is very easy for the men to walk on and is of economical design, making the shaft absolutely fireproof.

For sinking work, the use of a steel shoe to penetrate the soft stratas was used and carried the concrete caisson from the surface of ground to a point 52 feet below the top of coping.

To give the shoe a good start excavation was first made giving ample clearance for a depth of 3 feet when the forms were placed in position at the surface and the first section of concrete lining wall poured to a depth of 6 feet.

Mucking was then started and as the sides of the excavation were cleared the weight of the concrete started the cutting edge and penetration of the shoe, until sufficient depth was made for the placing of another 6 foot section of concrete wall. This same process was repeated until shoe and concrete walls were landed on the solid strata at a depth of 52 feet from top of coping. For this depth the walls were 21 inches thick and the entire section sunk by the weight of the concrete through the surface soil, sand, gravel and clay stratas. To tie together each vertical 6 foot section of concrete lining wall 1 inch diameter by 6 foot rods were placed around the entire section and spaced 3 feet apart. The concrete mix was composed of one part "Universal Portland cement," 2 parts sand and 5 parts gravel. For the closing in sections an extra bag of cement was added to each batch. The concrete was mixed in a cubical mixer located near the top of shaft, poured into buckets, lowered and the mix distributed in the several forms

by means of a movable chute supported on a temporary platform at the top of each section in the shaft. No supporting buntons for the side walls were used in this shaft.

From shoe to the shaft bottom the usual method of sinking was employed, namely, drilling and shooting the sump holes and benches, carrying down the excavation as far as possible to permit the placing of from 20 to 60 feet of concrete lining wall, when the sinking and concreting process was repeated.

When soft stratas and fire clay seams were encountered in the excavation, 2 inch by 10 inch curbing timbers were placed to protect the sides from caving and protection to the men.

When the shoe was landed, several cracks appeared in the concrete walls mainly due to the pressure exerted by the weight of the concrete not settling evenly, at times one end was much higher than the other, when mucking at the lower end had to be stopped and continued at the high end until both came to the same level. When shoe was landed the shaft section for a depth of 52 feet was found to be about 9 inches out of plumb, this was equalized and the cracks grouted by placing a concrete veneer over the entire top section; the concrete was adhered to the original walls by the use of  $\frac{3}{4}$  inch lag screws staggered every 3 feet and firmly placed in the original concrete, making a good appearing and efficient job when the work was completed. The advantage of sinking by this method, through soft ground, over that of using curbing timber and jacking the shoe down by hand, was not only in progress, but also the saving in cost by eliminating any heavy timber that might be necessary, and pouring the concrete for the heavier wall sections and erecting the forms on the surface. Very little water was met with during the work and little trouble was experienced taking care of it. During the sinking and concreting work two 8-hour shifts were employed consisting of seven men on each shift. One shift only was used of five men when the stairway was erected.

The equipment consisted of a straight mast derrick with swinging gear attachment and a 50-foot boom handling all of the muck and conveying the concrete. One double drum hoisting engine size of cylinders  $6\frac{1}{2}$  inch by 10 inch; attached to the engine was a 20 H. P. vertical boiler; one 50 H. P. portable five-tube boiler; one duplex feed water pump, size 6 inch by 4 inch by 6 inch; two side dump trucks; two dump buckets each of one cubic yard capacity and one cubical concrete mixer with engine attached was used. The mixer had  $\frac{1}{2}$  cubic yard capacity. Electric lights for the work were furnished from the Vermilion mine generator and water for boiler use was pumped from the same place.

#### MINE FIRES.

About the 7th of August, 1911, a fire was discovered in the abandoned works of the Christian County Coal Company's mine. The old works where the fire originated had been mined by machines and was caused by spontaneous combustion.

The fire was so far away from the works that it could not be controlled, it being impossible to get to the fire with sufficient water to put it out.

The mine rescue car spent two or three days at the mine, but conditions were such that the thought of putting out the fire with water was abandoned. The closest place of the fire to the workings of the mine is 600 feet.

The fire is walled in with forty-eight brick and concrete stoppings and up to the present time there has been no indication that the fire is still burning.

#### FATAL ACCIDENTS.

The past year shows a decrease in the number of fatal accidents and an increase of a third of a million tons of coal and I claim this is due to the system of management that some of the mines have adopted in Vermilion County.

The Bunsen Coal Company, under the management of Mr. Thomas Moses, as superintendent, was not satisfied with the old system of mine managers and assistants so they blocked the mines into from two to five sections and put face boss, or section boss, over sections and he makes the allotted territory from one to two times per day. If the face boss comes into a place where the miner is in need of timbers, he stays there till they are put up and if the miner refuses to place props as directed by the face boss, he is discharged and the officers of the Miners' organization do not have any sympathy for a miner who will not make his place safe for his own protection.

July 6, 1911, Joseph Dean, miner, aged 18 years, single, employed by Dering Coal Company, at mine No. 2, Westville, Vermilion County, was working with his father, loading a car of coal, when a rock fell, killing him instantly.

July 14, 1911, George Meno, miner, aged 32 years, single, employed by Danville Collieries Company, Catlin, Vermilion County, was loading a car of coal when a rock 7 feet long, 4 feet wide, and 6 inches thick fell, killing him instantly.

July 19, 1911, Oscar Felice, miner, aged 26 years, married, employed by Bunsen Coal Company at mine No. 2, Westville, Vermilion County, was pulling down a loose rock when a side rock fell on him injuring him, from which injuries he died July 29, 1911, at St. Elizabeth's Hospital, Danville. He leaves a widow and two children.

July 27, 1911, Martin Baretto, miner, aged 37 years, married, employed by the Bunsen Coal Company at mine No. 4, Westville, Vermilion County, had gone back to his box for his drilling machine, when a large pot rock weighing about 3,000 lbs. tipped a cross bar and fell on him. He died August 6, 1911. He leaves a widow and four children.

September 14, 1911, Ben Bell, miner, aged 22 years, married, employed by the Bunsen Coal Company at mine No. 2, Westville, Vermilion County, was killed by a fall of rock. He leaves a widow.

September 21, 1911, Anthony Buskosky, driver, aged 28 years, single, employed by Dering Coal Company, at mine No. 2, Westville, Vermilion County, was standing on a parting waiting for another driver to uncouple a car for him when a rock fell on his head and shoulders, knocking him down on edge of car, injuring him internally, from which he died one hour later.

September 21, 1911, William G. Leonard, miner, aged 47 years, married, employed by Manufacturers' and Consumers' Coal Company, Decatur, Macon County, was killed by a fall of rock. He had mined under the coal for about three feet to a horse-back running through the coal, when the rock fell, killing him instantly. He leaves a widow and three children.

September 22, 1911, Romlet Romian, miner, aged 49 years, married, employed by Dering Coal Company, mine No. 2, Westville, Vermilion County, was supposed to be taking down loose rock when a mass fell on him, causing internal injuries from which he died. He leaves a widow.

September 29, 1911, John Ratkus, miner, aged 40 years, single, employed by Pana Coal Company, at mine No. 1, Pana, Christian County, was killed by falling coal.

October 9, 1911, John Terrick, miner, aged 25 years, single, employed by Bunsen Coal Company, at mine No. 2, Westville, Vermilion County, was working in a room and had just wedged down a fall of coal. He was stooping over to pick up his wedge when a rock 5 feet 11 inches long, 2 feet 6 inches wide and 6 inches thick, fell on him, killing him instantly.

October 21, 1911, James Foy, driver, aged 25 years, single, employed by Bunsen Coal Company at mine No. 3, Westville, Vermilion County, died from injuries received September 5, 1911. Deceased failed to get off his trip at the parting and was caught between loaded cars.

November 8, 1911, John Joysyo, laborer, aged 28 years, married, employed by Dering Coal Company at mine No. 2, Westville, Vermilion County, fell down the shaft. He leaves a widow and two children.



November 20, 1911, O. C. Tharp, weigh boss, aged 40 years, married, employed by Sharon Coal Company, Georgetown, Vermillion County, fell into the shaft and was killed instantly. He leaves a widow and two children.

November 25, 1911, Philip Pulso, miner, aged 35 years, married, employed by Manufacturers' & Consumers' Coal Company, Decatur, Macon County, died at his home. The company knew nothing of this accident, nor do they believe the man was injured in the mine. Since his death his relatives claim he was injured on the afternoon of November 21, in his working place by falling slate. He said nothing about being injured and continued to work the remainder of that day and the following day. The face boss said he never complained to him of being hurt. He leaves a widow.

January 22, 1912, Pete Chermen, miner, aged 50 years, married, employed by Dering Coal Company at mine No. 3, Steelton, Vermillion County, had started to load a car of coal when a rock weighing 5 tons fell, killing him instantly. He leaves a widow and four children.

February 12, 1912, E. D. Burch, miner, aged 54 years, married, was killed in mine No. 1 of Electric Coal Company, Danville, Vermillion County, by a fall of rock.

February 13, 1912, John Katuchis, miner, aged 42 years, married, employed by Bunsen Coal Company, at mine No. 4, Westville, Vermillion County, was injured by a fall of rock and died June 4, 1912. He leaves a widow and one child.

February 14, 1912, Stanley Poloski, laborer, aged 20 years, single, employed by Bunsen Coal Company, at mine No. 2, Westville, Vermillion County, was killed by falling rock. Deceased and his partner were delivering a truck load of timbers when a slab of rock crushed him, killing him instantly.

February 16, 1912, John Rukus, miner, aged 28 years, single, employed by Fairmount Coal Company, Bennett mine No. 1, Fairmount, Vermillion County, was opening a keg of powder with a pick when the powder exploded. He was severely burned and died in a short time.

May 22, 1912, Frank Sandretto, miner, aged 28 years, single, employed by Dering Coal Company at mine No. 4, Steelton, Vermillion County, was killed by a fall of rock. This man was working alone in the entry and from all appearance he was shoveling coal into his car, when a large rock fell from roof causing his death about twenty minutes later. He was warned of danger of this rock by the assistant mine manager and he and two miners, who were working in the next entry were ordered to take it down or timber it. He said he would timber the rock as soon as he got out coal that was down, but it fell before he got the coal out.

May 24, 1912, John R. Arkley, miner, aged 53 years, married, employed by Dering Coal Company at mine No. 3, Steelton, Vermillion County, was killed by a fall of rock. Deceased was loading out a car of coal when rock fell without any warning. He leaves a widow.

Respectfully submitted,

W. S. BURRIS,

*State Inspector of Mines, Fifth District, Danville, Ill.*

*Fatal Casualties—Fifth District—June 30, 1912.*

| Date.    | Name.            | Age. | Occupation. | Residence.  | Married. | Single. | Widow. | Children. | Dependents. | Cause of death.  |
|----------|------------------|------|-------------|-------------|----------|---------|--------|-----------|-------------|------------------|
| 1911.    |                  |      |             |             |          |         |        |           |             |                  |
| July 6   | Joseph Dean      | 18   | Miner       | Westville   | 1        | 1       |        |           |             | Falling rock     |
| 14       | Geo. Meno        | 32   | do          | Catlin      | 1        | 1       |        |           |             | do               |
| 29       | Oscar Felice     | 26   | do          | Westville   | 1        | 1       | 2      | 3         |             | do               |
| Aug. 6   | Martin Baretto   | 37   | do          | do          | 1        | 1       | 4      | 5         |             | do               |
| Sept. 14 | Ben Bell         | 22   | do          | Kelleyville | 1        | 1       | 1      | 1         |             | do               |
| 21       | Anthony Buskosky | 28   | Driver      | Westville   | 1        | 1       |        |           |             | do               |
| 21       | Wm. G. Leonard   | 47   | Miner       | Decatur     | 1        | 1       | 3      | 4         |             | do               |
| 22       | Romelet Romian   | 49   | do          | Westville   | 1        | 1       | 1      | 1         |             | do               |
| 28       | John Ratkus      | 40   | do          | Pana        | 1        | 1       |        |           |             | Falling coal     |
| Oct. 9   | John Ferriek     | 25   | do          | Westville   | 1        | 1       |        |           |             | Falling rock     |
| 21       | James Foy        | 25   | Driver      | do          | 1        | 1       |        |           |             | Pit car          |
| Nov. 8   | John Joysyo      | 28   | Laborer     | do          | 1        | 1       | 2      | 3         |             | Fell down shaft  |
| 19       | O. C. Tharp      | 40   | Weighman    | Georgetown  | 1        | 1       | 2      | 3         |             | do               |
| 23       | Philip Pulso     | 35   | Miner       | Decatur     | 1        | 1       | 1      | 1         |             | Falling slate    |
| 1912.    |                  |      |             |             |          |         |        |           |             |                  |
| Jan. 22  | Pete Chermen     | 50   | do          | Westville   | 1        | 1       | 4      | 5         |             | Falling rock     |
| Feb. 12  | E. D. Burch      | 54   | do          | Danville    | 1        | 1       | 6      | 7         |             | do               |
| 14       | Stanley Poloski  | 20   | Laborer     | Kelleyville | 1        | 1       |        |           |             | do               |
| 16       | John Rukus       | 28   | Miner       | Catlin      | 1        | 1       |        |           |             | Powder explosion |
| May 22   | Frank Sandretto  | 28   | do          | Westville   | 1        | 1       |        |           |             | Falling rock     |
| 24       | John Askley      | 53   | do          | Danville    | 1        | 1       |        |           |             | do               |
| June 4   | John Kochusio    | 42   | do          | Westville   | 1        | 1       | 1      | 2         |             | do               |
|          | Total            |      |             |             | 11       | 10      | 11     | 24        | 35          |                  |

*Recapitulation of fatal casualties—Fifth District—1912.*

| Residence.  | No. | Occupation. | No. | Cause of accident. | No. | Colliery.                | No. |
|-------------|-----|-------------|-----|--------------------|-----|--------------------------|-----|
| Catlin      | 2   | Drivers     | 2   | Falling coal       | 1   | Bunsen                   | 7   |
| Danville    | 2   | Laborers    | 2   | Falling rock       | 15  | Danville                 | 1   |
| Decatur     | 2   | Miners      | 16  | Falling slate      | 1   | Dering                   | 7   |
| Georgetown  | 1   | Weighman    | 1   | Fell down shaft    | 2   | Electric                 | 1   |
| Kelleyville | 2   |             |     | Pit cars           | 1   | Fairmount                | 1   |
| Pana        | 1   |             |     | Powder explosion   | 1   | Manufacturer & Consumers | 2   |
| Westville   | 11  |             |     |                    |     | Pana                     | 1   |
|             |     |             |     |                    |     | Sharon Coal & Brick      | 1   |
| Total       | 21  |             | 21  |                    | 21  |                          | 21  |

*Non-fatal casualties—Fifth District—June 30, 1912.*

| Date.   | Name.             | Residence.     | Age. | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|---------|-------------------|----------------|------|----------|---------|-----------|-------------|--|-----------------|
| 1911.   |                   |                |      |          |         |           |             |  |                 |
| July 11 | Calvin McCormick  | 16 Steelton    | 1    | 1        |         |           |             | Back injured, pit car                      | 126             |
| 18      | Martin Galvin     | 20 Assumption  | 1    | 1        |         |           |             | Foot injured, pit car                      | 30              |
| 22      | James Parker      | 23 Taylorville | 1    | 1        |         |           |             | Leg broken, pit car                        | 60              |
| 25      | Louis Nagy        | 28 Steelton    | 1    | 1        | 1       |           |             | 2 Head injured, falling rock               | 40              |
| 26      | Frank Kosmas      | 27 Westville   | 1    | 1        | 1       |           |             | 2 Leg injured, falling rock                | 71              |
| 28      | August Leroy      | 52 Danville    | 1    | 1        | 3       |           |             | 4 Ankle broken, falling rock               | 45              |
| 28      | Versino Celestino | 33 Westville   | 1    | 1        | 3       |           |             | 4 Shoulder injured, falling rock           | 40              |
| 29      | John Krainock     | 17 do          | 1    | 1        |         |           |             | Pelvis bone broken, pit car                | 60              |
| 29      | Art Cowell        | 28 do          | 1    | 1        |         |           |             | Arm broken, pit car                        | 62              |
| Aug. 7  | Ed Champion       | 50 do          | 1    | 1        | 5       |           |             | 6 Leg broken, falling rock                 | 91              |
| 9       | Ballista Prola    | 44 do          | 1    | 1        |         |           |             | 1 Foot injured, falling rock               | 58              |
| 26      | Joe Footman       | 20 do          | 1    | 1        |         |           |             | Leg broken, pit car                        | 90              |
| Sept. 2 | Frank Seidleicki  | 21 do          | 1    | 1        |         |           |             | do   | 40              |
| 5       | Peter Sensky      | 20 do          | 1    | 1        |         |           |             | do   | 42              |
| 20      | Ross Bute         | 43 Pana        | 1    | 1        |         |           |             | 1 Leg broken, falling slate                | 150             |
| 25      | Paul Zemont       | 44 Westville   | 1    | 1        | 4       |           |             | 5 Fingers broken, pit car                  | 50              |
| 27      | Lawrence Naylor   | 31 Danville    | 1    | 1        | 1       |           |             | 2 Arm broken, pit car                      | 270             |
| 27      | Mike Garley       | 39 Westville   | 1    | 1        | 2       |           |             | 3 Ribs broken, falling rock                | 86              |
| 28      | Joe Bowrey        | 19 Pana        | 1    | 1        |         |           |             | Leg broken, fell down                      | 49              |
| 30      | George Bartoski   | 21 Westville   | 1    | 1        |         |           |             | Leg broken, falling rock                   | 70              |
| Oct. 6  | Mike Wravick      | 43 do          | 1    | 1        | 3       |           |             | 4 Ribs broken, falling rock                | 99              |
| 13      | John Cornelios    | 29 Danville    | 1    | 1        |         |           |             | Arms burned, hot water                     | 38              |
| 19      | Homer Evans       | 23 Hilliary    | 1    | 1        |         |           |             | Leg broken, pit car                        | 66              |
| 21      | Steve Ovack       | 38 Westville   | 1    | 1        | 3       |           |             | 4 Leg injured, falling rock                | 30              |
| 23      | James Jones       | 21 Taylorville | 1    | 1        |         |           |             | Foot injured, mule                         | 30              |
| 24      | Mike Selesky      | 38 Himrod      | 1    | 1        | 3       |           |             | 4 Finger cut off, axe                      | 52              |
| 25      | Ike McCoy         | 34 Stonington  | 1    | 1        |         |           |             | Shoulder injured, falling slate            | 33              |
| 27      | Stanley S. Kopen  | 23 Hilliary    | 1    | 1        |         |           |             | 1 Shoulder broken, pit car                 | 56              |
| 29      | James Boyer       | 50 Danville    | 1    | 1        | 5       |           |             | 6 Foot injured, pit car                    | 55              |
| 30      | Victor Huffmaster | 26 Pana        | 1    | 1        |         |           |             | Body injured, flying coal                  | 38              |
| 31      | Paul Valciew      | 42 Westville   | 1    | 1        |         |           |             | Face and hands burned, powder explosion    | 30              |
| Nov. 1  | John Finley       | 21 Decatur     | 1    | 1        |         |           |             | Body injured, pit car                      | 30              |
| 1       | George Groogan    | 34 Stonington  | 1    | 1        |         |           |             | 1 Face and hands burned, gas explosion     | 38              |
| 6       | Mac McCorkle      | 36 Westville   | 1    | 1        |         |           |             | Foot injured, mule                         | 35              |
| 7       | Miko Laschuski    | 35 Decatur     | 1    | 1        |         |           |             | 1 Face and hands burned, gas explosion     | 31              |
| 8       | Martin Cernisas   | 31 Westville   | 1    | 1        | 1       |           |             | 2 Back injured, falling rock               | 84              |
| 11      | Ray Mackenson     | 25 Danville    | 1    | 1        | 1       |           |             | 2 Head injured, falling rock               | 30              |
| 13      | Chas. Simpson     | 38 Pana        | 1    | 1        | 3       |           |             | 4 Foot broken, pit car                     | 33              |
| 20      | H. Paul           | 25 Stonington  | 1    | 1        |         |           |             | Leg injured, pit car                       | 30              |
| 21      | Fred Rostek       | 51 Decatur     | 1    | 1        | 5       |           |             | 6 Arm injured, falling rock                | 30              |
| 22      | John Estock       | 63 Hilliary    | 1    | 1        | 7       |           |             | 5 Body injured, cage                       | 42              |
| 27      | John Higgins      | 48 Pana        | 1    | 1        |         |           |             | Head injured, falling slate                | 30              |
| 29      | Elwes Lewis       | 17 Taylorville | 1    | 1        |         |           |             | Body injured, pit car                      | 30              |
| 29      | Ferman Haussey    | 23 Westville   | 1    | 1        |         |           |             | Pelvis bone broken, pit car                | 70              |
| Dec. 1  | Oscar Gerard      | 50 do          | 1    | 1        |         |           |             | 1 Back injured, falling rock               | 60              |
| 5       | Jesse Gorden      | 30 Pana        | 1    | 1        | 3       |           |             | 4 Finger broken, falling coal              | 31              |
| 13      | Frank Yapsic      | 42 Assumption  | 1    | 1        | 6       |           |             | 7 Shoulder injured, falling coal           | 64              |
| 15      | John Magabire     | 28 Pana        | 1    | 1        |         |           |             | Toes broken, pit car                       | 47              |
| 16      | James Youkil      | 25 Danville    | 1    | 1        |         |           |             | Back injured, falling rock                 | 60              |
| 19      | Wm. Williams      | 31 do          | 1    | 1        | 2       |           |             | 3 Head and back injured, falling rock      | 165             |
| 20      | Martin Yaksta     | 45 Westville   | 1    | 1        | 4       |           |             | 5 Rib broken, fell down                    | 30              |
| 22      | Chas. Sackalowski | 24 do          | 1    | 1        |         |           |             | Body injured, falling rock                 | 90              |
| 22      | Harry Zane        | 26 Pana        | 1    | 1        |         |           |             | Finger broken, pit car                     | 30              |
| 27      | John Chipon       | 25 Decatur     | 1    | 1        |         |           |             | 1 Leg injured, falling coal                | 60              |
| 1912.   |                   |                |      |          |         |           |             |  |                 |
| Jan. 1  | Geo. Anderson     | 30 Danville    | 1    | 1        |         |           |             | Collar bone broken, falling rock           | 30              |
| 5       | C. Maples         | 44 Stonington  | 1    | 1        |         |           |             | 1 Legs injured, pit car                    | 30              |
| 6       | W. E. Anderson    | 48 Danville    | 1    | 1        | 3       |           |             | 4 Ribs broken, pit car                     | 30              |
| 6       | John Gareo        | 55 Pana        | 1    | 1        | 4       |           |             | 1 Head injured, struck coal chute          | 30              |
| 9       | Chas. Goodloski   | 28 Westville   | 1    | 1        |         |           |             | 1 Ribs broken, pit car                     | 56              |
| 10      | George Borah      | 50 do          | 1    | 1        |         |           |             | 1 Leg injured, pit car                     | 30              |
| Jan. 13 | Callime Fomez     | 35 Danville    | 1    | 1        | 4       |           |             | 5 Body injured, falling cage               | 30              |
| 13      | Joy Dos           | 40 Hilliary    | 1    | 1        | 3       |           |             | 4 do                                       | 30              |
| 13      | Joe Berdnovick    | 30 do          | 1    | 1        | 3       |           |             | 4 do                                       | 60              |

*Non-fatal casualties—Fifth District—Concluded.*

| Date. | Name.             | Residence.     | Age. | Married.<br>Single. | Children. | Dependents.                      | Character<br>of injury and cause of<br>accident. | Time lost—days |
|-------|-------------------|----------------|------|---------------------|-----------|----------------------------------|--|----------------|
| 1912. |                   |                |      |                     |           |                                  |  |                |
| 13    | Frank Dentrux     | 35 Danville    | 1    | 3                   | 4         | Body injured, falling cage       | 36   |                |
| 13    | D. Schoneous      | 35 Hilliary    | 1    | 1                   | 2         | do                               | 30   |                |
| 13    | J. Schoneous      | 38 do          | 1    | 1                   | 2         | do                               | 30   |                |
| 13    | Wm. Miller        | 39 Georgetown  | 1    | 1                   | 1         | Eye injured, flying coal         | 30   |                |
| 16    | John Visueski     | 30 Assumption  | 1    | 1                   | 1         | Eye injured, flying bark         | 66   |                |
| 16    | Joe McKinney      | 38 Pana        | 1    | 3                   | 4         | Ankle broken, struck by rope     | 78   |                |
| 17    | Jacob Becker      | 21 Georgetown  | 1    | 1                   | 1         | Ribs broken, falling rock        | 30   |                |
| 19    | Peter Youngsy     | 37 Westville   | 1    | 1                   | 2         | Leg broken, falling rock         | 91   |                |
| 19    | Tony Stackuskis   | 37 do          | 1    | 4                   | 5         | Ribs broken, falling rock        | 42   |                |
| 20    | Melle Murray      | 40 Pana        | 1    | 4                   | 5         | Head injured, falling coal       | 42   |                |
| 22    | Mark Ord          | 33 Westville   | 1    | 1                   | 2         | Arm broken, pit car              | 56   |                |
| 23    | John Zory         | 65 do          | 1    | 4                   | 4         | Head injured, falling rock       | 30   |                |
| 26    | Frank Dagan       | 50 do          | 1    | 1                   | 1         | Foot injured, falling rock       | 30   |                |
| 27    | A. C. Freeman     | 40 Pana        | 1    | 2                   | 3         | Eye destroyed, flying coal       | 80   |                |
| 31    | Stanley Ross      | 44 Westville   | 1    | 5                   | 6         | Leg broken, falling rock         | 130  |                |
| Feb.  | 3 Walter Pinavage | 37 do          | 1    | 5                   | 6         | Back injured, falling rock       | 40   |                |
| 14    | Isaac Waggle      | 49 do          | 1    | 1                   | 2         | Leg broken, falling rock         | 123  |                |
| 15    | John Rostik       | 61 Decatur     | 1    | 8                   | 5         | Head injured, falling coal       | 60   |                |
| 29    | Ray McReynolds    | 21 Westville   | 1    | 1                   | 1         | Head injured, flying coal        | 60   |                |
| Mar.  | 5 James Dudley    | 26 do          | 1    | 1                   | 1         | Eye injured, falling rock        | 30   |                |
| 9     | Fred Rebe         | 47 Danville    | 1    | 4                   | 5         | Pelvis bone broken, falling rock | 90   |                |
| 11    | Wm. Barnett       | 55 Pana        | 1    | 4                   | 3         | Leg injured, falling rock        | 30   |                |
| 13    | Andy Miklaski     | 32 do          | 1    | 2                   | 3         | Leg injured, falling slate       | 30   |                |
| 21    | Chas. Skowisuski  | 45 Decatur     | 1    | 7                   | 8         | Head injured, falling rock       | 30   |                |
| 25    | Joe Sasil         | 25 Danville    | 1    | 1                   | 1         | Finger cut off, beam             | 30   |                |
| 28    | Bert Willinson    | 35 Pana        | 1    | 1                   | 2         | Leg broken, friction clutch      | 60   |                |
| 29    | George Rolla      | 55 do          | 1    | 7                   | 1         | Body injured, pit car            | 44   |                |
| Apr.  | 3 Wm. Allison     | 19 Danville    | 1    | 1                   | 1         | Head injured, falling slate      | 30   |                |
| May   | 15 Harry Day      | 22 Taylorville | 1    | 1                   | 1         | Foot injured, pit car            | 34   |                |
|       | Total             |                | 58   | 34                  | 151       | 188                              |  |                |

|                   |       |
|-------------------|-------|
| Number injured    | 92    |
| Total days lost   | 5,025 |
| Average days lost | 54.62 |

*Recapitulation of non-fatal casualties—Fifth District—1912.*

| Residence.  | No. | Occupation.    | No. | Cause of accident. | No. | Colliery.        | No. |
|-------------|-----|----------------|-----|--------------------|-----|------------------|-----|
| Assumption  | 3   | Cager          | 1   | Axe                | 1   | Assumption       | 3   |
| Danville    | 14  | Couplers       | 2   | Beam               | 1   | Bunsen           | 16  |
| Decatur     | 6   | Drivers        | 20  | Cage               | 7   | Christian Co.    | 4   |
| Georgetown  | 2   | Fireman        | 1   | Falling coal       | 5   | Dering           | 27  |
| Hilliary    | 7   | Laborers       | 9   | Falling rock       | 30  | Electric         | 13  |
| Himrod      | 1   | Mine manager   | 1   | Falling slate      | 5   | Mfg. & Consumers | 6   |
| Pana        | 16  | Miners         | 50  | Fell down          | 2   | Mission          | 3   |
| Steelton    | 2   | Motormen       | 2   | Flying bark        | 1   | Pana             | 9   |
| Stonington  | 4   | Superintendent | 1   | Flying coal        | 4   | Penwell          | 7   |
| Taylorville | 4   | Timbermen      | 3   | Friction clutch    | 1   | Stonington       | 4   |
| Westville   | 33  | Trappers       | 2   | Gas explosion      | 2   |                  |     |
|             |     |                |     | Hot water          | 1   |                  |     |
|             |     |                |     | Mule               | 2   |                  |     |
|             |     |                |     | Pit cars           | 27  |                  |     |
|             |     |                |     | Powder explosion   | 1   |                  |     |
|             |     |                |     | Struck by rope     | 1   |                  |     |
|             |     |                |     | Struck coal chute  | 1   |                  |     |
| Total       | 92  |                | 92  |                    | 92  |                  | 92  |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Fifth District—1912.*

| Nature of injuries.        | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percentage of injuries. |
|----------------------------|---------|----------|---------|-----------|-------------|-----------------|----------|-------------------------|
|                            |         |          |         |           |             | Total.          | Average. |                         |
| Ankles broken.....         | 3       | 3        | .....   | 7         | 10          | 393             | 131.00   | 3.26                    |
| Arms broken.....           | 2       | 1        | 1       | 1         | 2           | 118             | 59.00    | 2.17                    |
| Arms burned.....           | 1       | .....    | 1       | .....     | .....       | 38              | 38.00    | 1.09                    |
| Arms injured.....          | 1       | 1        | .....   | 5         | 6           | 30              | 30.00    | 1.09                    |
| Backs injured.....         | 5       | 3        | 2       | 6         | 9           | 370             | 74.00    | 5.43                    |
| Bodies injured.....        | 12      | 8        | 4       | 29        | 26          | 490             | 40.82    | 13.04                   |
| Collar bone broken.....    | 1       | .....    | 1       | .....     | .....       | 30              | 30.00    | 1.09                    |
| Eye destroyed.....         | 1       | 1        | .....   | 2         | 3           | 80              | 80.00    | 1.09                    |
| Eyes injured.....          | 3       | 2        | 1       | .....     | 2           | 126             | 42.00    | 3.26                    |
| Face and hands burned..... | 3       | 2        | 1       | .....     | 2           | 99              | 33.00    | 3.26                    |
| Feet broken.....           | 1       | 1        | .....   | 3         | 4           | 33              | 33.00    | 1.09                    |
| Feet injured.....          | 7       | 3        | 4       | 5         | 8           | 272             | 38.86    | 7.61                    |
| Fingers broken.....        | 3       | 2        | 1       | 7         | 9           | 111             | 37.00    | 3.26                    |
| Fingers cut off.....       | 2       | 1        | 1       | 3         | 4           | 82              | 41.00    | 2.17                    |
| Head and back injured..... | 1       | 1        | .....   | 2         | 3           | 165             | 165.00   | 1.09                    |
| Head injured.....          | 10      | 6        | 4       | 29        | 27          | 382             | 38.20    | 10.87                   |
| Leg broken.....            | 13      | 6        | 7       | 13        | 19          | 1,099           | 84.54    | 14.13                   |
| Leg injured.....           | 8       | 7        | 1       | 10        | 15          | 311             | 38.87    | 8.69                    |
| Pelvis bone broken.....    | 3       | 1        | 2       | 4         | 5           | 220             | 73.33    | 3.26                    |
| Ribs broken.....           | 7       | 6        | 1       | 16        | 22          | 336             | 48.00    | 7.61                    |
| Shoulder broken.....       | 1       | 1        | .....   | .....     | 1           | 56              | 56.00    | 1.09                    |
| Shoulders injured.....     | 3       | 2        | 1       | 9         | 11          | 137             | 45.67    | 3.26                    |
| Toes broken.....           | 1       | .....    | 1       | .....     | .....       | 47              | 47.00    | 1.09                    |
| Total.....                 | 92      | 58       | 34      | 151       | 188         | 5,025           | 54.62    | 100.00                  |

*Christian County—*

| Number.             | Name of operator.                      | Postoffice address of the mines. | Output of mines in tons. |               |               |                 |
|---------------------|--|----------------------------------|--------------------------|---------------|---------------|-----------------|
|                     |  |                                  | Mine run.                | Lump.         | Other grades. | Total.          |
| SHIPPING MINES.     |  |                                  |                          |               |               |                 |
| 1                   | Christian Co. Coal Co. ....            | Taylorville .....                | 286,935 .....            |               | 15,343 .....  | 302,278 .....   |
| 2                   | Springfield Coal Co., No. 6. ....      | do. ....                         | 19,903 .....             | 138,763 ..... | 76,554 .....  | 235,220 .....   |
| 3                   | Penwell Coal Mining Co., Penwell. .... | Pana. ....                       | 53,846 .....             | 44,339 .....  | 91,919 .....  | 190,104 .....   |
| 4                   | Pana Coal Co., No. 1. ....             | do. ....                         | 34,042 .....             | 61,257 .....  | 90,289 .....  | 185,588 .....   |
| 5                   | Stonington Coal Co. ....               | Stonington .....                 | 168,510 .....            |               | 7,006 .....   | 175,516 .....   |
| 6                   | Smith-Lohr Coal M. Co., S-L. ....      | Pana. ....                       | 143 .....                | 49,751 .....  | 84,991 .....  | 134,885 .....   |
| 7                   | Assumption Coal Mining Co. ....        | Assumption .....                 |                          | 338,701 ..... | 36,564 .....  | 75,265 .....    |
| 8                   | Pana Coal Co., No. 2. ....             | Pana. ....                       | 2,704 .....              | 14,725 .....  | 24,218 .....  | 41,647 .....    |
| Total .....         |  |                                  | 566,083 .....            | 347,536 ..... | 426,884 ..... | 1,340,503 ..... |
| LOCAL MINE.         |  |                                  |                          |               |               |                 |
| 1                   | C. W. Vandever. ....                   | Edinburg. ....                   |                          | 3,000 .....   | 2,688 .....   | 5,688 .....     |
| Total—9 mines ..... |  |                                  | 566,083 .....            | 350,536 ..... | 429,572 ..... | 1,346,191 ..... |

Mines in 1911, 9.

Mines in 1912, 9.

*Macon County—*

| Number.             | Name of operator                        | Postoffice address of the mines. | Output of mines in tons. |         |               |         |
|---------------------|---|----------------------------------|--------------------------|---------|---------------|---------|
|                     |   |                                  | Mine run                 | Lump.   | Other grades. | Total.  |
| SHIPPING MINES.     |   |                                  |                          |         |               |         |
| 1                   | Manufacturers & Consumers Coal Co. .... | Decatur .....                    | 16,066                   | 50,702  | 50,805        | 117,573 |
| 2                   | Decatur Coal Co., No. 2. ....           | do. ....                         | 15,917                   | 27,933  | 10,054        | 53,904  |
| 3                   | Blue Mound Coal Co., No. 1. ....        | Blue Mound. ....                 | 5,672                    | 21,792  | 14,977        | 42,441  |
| 4                   | Decatur Coal Co., Niantic. ....         | Niantic. ....                    | 1,542                    | 21,334  | 16,866        | 39,742  |
| 5                   | Decatur Coal Co., No. 1. ....           | Decatur .....                    | 5,306                    | 9,310   | 3,350         | 17,966  |
| Total—5 mines. .... |   |                                  | 44,503                   | 131,071 | 96,052        | 271,626 |

Mines reported for 1911, 5.

Mines in 1912, 5.

*Fifth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Acci-<br>dents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-----------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.         | Injured. |   | Horses.                         | Mules. |         |
| 274,490                           | 27,788          | 14,400                                 | 153                       | 220                       | 113                  | 393    | 302,278     | .....       | .....           | 4        | Solid....                                     | .....                           | 22     | 1       |
| 175,803                           | 59,417          | 8,945                                  | 183                       | 221                       | 86                   | 307    | 235,220     | .....       | .....           | 7        | do.....                                       | .....                           | 23     | 2       |
| 140,990                           | 49,114          | 2,175                                  | 149                       | 185                       | 75                   | 260    | 190,104     | .....       | .....           | .....    | U. C....                                      | .....                           | 15     | 3       |
| 54,057                            | 131,531         | 1,201                                  | 167                       | 196                       | 61                   | 257    | 185,588     | .....       | 1               | 7        | do.....                                       | .....                           | 13     | 4       |
| 161,492                           | 14,024          | 1,500                                  | 128                       | 130                       | 96                   | 226    | .....       | 175,516     | .....           | 4        | do.....                                       | .....                           | 22     | 5       |
| 116,517                           | 18,368          | 1,015                                  | 116                       | 184                       | 56                   | 240    | 134,885     | .....       | .....           | .....    | do.....                                       | .....                           | 10     | 6       |
| 54,976                            | 20,289          | 283                                    | 199                       | 111                       | 47                   | 158    | 75,265      | .....       | .....           | 3        | do.....                                       | .....                           | 15     | 7       |
| 39,470                            | 2,177           | 285                                    | 53                        | 166                       | 51                   | 217    | 41,647      | .....       | .....           | 2        | do.....                                       | .....                           | 8      | 8       |
| 1,017,795                         | 322,708         | 29,804                                 | 144                       | 1,473                     | 585                  | 2,058  | 1,164,987   | 175,516     | 1               | 27       | .....   | .....                           | 128    | .....   |
| .....                             | 5,688           | 250                                    | 88                        | 7                         | 6                    | 13     | 5,688       | .....       | .....           | .....    | .....   | .....                           | .....  | 1       |
| 1,017,795                         | 328,396         | 30,054                                 | 137                       | 1,480                     | 591                  | 2,071  | 1,170,675   | 175,516     | 1               | 27       | .....   | .....                           | 128    | .....   |

*Fifth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Acci-<br>dents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-----------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.         | Injured. |   | Horses.                         | Mules. |         |
| 45,622                            | 71,951          | .....                                  | 229                       | 179                       | 65                   | 244    | 117,573     | .....       | 2               | 6        | .....   | .....                           | 20     | 1       |
| 4,730                             | 49,174          | .....                                  | 184                       | 100                       | 42                   | 142    | 53,904      | .....       | .....           | .....    | .....   | .....                           | .....  | 2       |
| 32,159                            | 10,282          | 2,526                                  | 140                       | 56                        | 20                   | 76     | 42,441      | .....       | .....           | .....    | Solid....                                     | .....                           | .....  | 3       |
| 30,169                            | 9,573           | 2,219                                  | 138                       | 44                        | 17                   | 61     | 39,742      | .....       | .....           | .....    | do.....                                       | .....                           | 9      | 4       |
| 3,593                             | 14,373          | .....                                  | 138                       | 48                        | 26                   | 74     | 17,966      | .....       | .....           | .....    | .....   | .....                           | 10     | 5       |
| 116,273                           | 155,353         | 4,745                                  | 166                       | 427                       | 170                  | 597    | 271,626     | .....       | 2               | 6        | .....   | .....                           | 47     | .....   |

*Moultrie County—*

| Number.         | Name of operator.                     | Postoffice address of the mines. | Output of mines in tons. |        |               |        |
|-----------------|---------------------------------------|----------------------------------|--------------------------|--------|---------------|--------|
|                 |                                       |                                  | Mine run.                | Lump.  | Other grades. | Total. |
| SHIPPING MINES. |                                       |                                  |                          |        |               |        |
| 1               | Lovington Coal Mining Co., No. 1..... | Lovington.....                   | 1,298                    | 24,186 | 28,678        | 54,162 |

Mines reported for 1911, 1.

Mines in 1912, 1.

*Shelby County—*

| Number.            | Name of operator.                     | Postoffice address of the mines. | Output of mines in tons. |        |               |         |
|--------------------|---------------------------------------|----------------------------------|--------------------------|--------|---------------|---------|
|                    |                                       |                                  | Mine run.                | Lump.  | Other grades. | Total.  |
| SHIPPING MINES.    |                                       |                                  |                          |        |               |         |
| 1                  | Century Coal Co., No. 1.....          | Tower Hill .....                 | 3,563                    | 18,318 | 39,528        | 61,409  |
| 2                  | Moweaqua C. M. & Mfg. Co., No. 1..... | Moweaqua.....                    | 968                      | 26,023 | 26,435        | 53,426  |
| Total.....         |                                       |                                  | 4,531                    | 44,341 | 65,963        | 114,835 |
| LOCAL MINES.       |                                       |                                  |                          |        |               |         |
| 1                  | Domas & Domas .....                   | Shelbyville .....                |                          | 3,700  | 100           | 3,800   |
| 2                  | Stretch Mine.....                     | do.....                          |                          | 3,621  | 120           | 3,741   |
| 3                  | Wm. Baum, No. 1.....                  | do.....                          |                          | 2,400  | 60            | 2,460   |
| 4                  | Wm. Baum, No. 3.....                  | do.....                          |                          | 1,600  | 50            | 1,650   |
| 5                  | Vanderpool & Graburn.....             | do.....                          | 1,006                    |        | 52            | 1,058   |
| 6                  | Wm. Baum, No. 2.....                  | do.....                          |                          | 1,000  |               | 1,000   |
| Total.....         |                                       |                                  | 1,006                    | 12,321 | 382           | 13,709  |
| Total—8 mines..... |                                       |                                  | 5,537                    | 56,662 | 66,345        | 128,544 |

Mines reported for 1911, 8.

New mines, 2.

Abandoned mines, 2.

Mines, 1912, 8.



*Fifth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Acci-<br>dents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-----------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.         | Injured. |   | Horses.                         | Mules. |         |
| 44, 921                           | 9, 241          | 415                                    | 229                       | 48                        | 20                   | 68     | 54, 162     | .....       | .....           | .....    | U. C. ....                                    | .....                           | .....  | 5 1     |

*Fifth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Acci-<br>dents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-----------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.         | Injured. |   | Horses.                         | Mules. |         |
| 52, 376                           | 9, 033          | 525                                    | 120                       | 63                        | 44                   | 107    | 61, 409     | .....       | .....           | .....    | Solid.  | .....                           | .....  | 11 1    |
| 38, 254                           | 15, 172         | 1, 000                                 | 123                       | 56                        | 48                   | 104    | .....       | 53, 426     | .....           | .....    | U. C. ....                                    | .....                           | .....  | 7 2     |
| 90, 630                           | 24, 205         | 1, 525                                 | 122                       | 119                       | 92                   | 211    | 61, 409     | 53, 426     | .....           | .....    | .....   | .....                           | .....  | 18      |
| .....                             | 3, 800          | .....                                  | 250                       | 14                        | 5                    | 19     | 3, 800      | .....       | .....           | .....    | .....   | .....                           | .....  | 1       |
| .....                             | 3, 741          | .....                                  | 220                       | 6                         | 3                    | 9      | 3, 741      | .....       | .....           | .....    | .....   | .....                           | .....  | 2       |
| .....                             | 2, 460          | .....                                  | 230                       | 12                        | 2                    | 14     | 2, 460      | .....       | .....           | .....    | .....   | .....                           | .....  | 3       |
| .....                             | 1, 650          | .....                                  | 150                       | 4                         | 2                    | 6      | 1, 650      | .....       | .....           | .....    | .....   | .....                           | .....  | 4       |
| .....                             | 1, 058          | .....                                  | 200                       | 8                         | 1                    | 9      | 1, 058      | .....       | .....           | .....    | .....   | .....                           | .....  | 5       |
| .....                             | 1, 000          | .....                                  | 250                       | 6                         | 1                    | 7      | 1, 000      | .....       | .....           | .....    | .....   | .....                           | .....  | 6       |
| .....                             | 13, 709         | .....                                  | 217                       | 50                        | 14                   | 64     | 13, 709     | .....       | .....           | .....    | .....   | .....                           | .....  | .....   |
| 90, 630                           | 37, 914         | 1, 525                                 | 193                       | 169                       | 106                  | 275    | 75, 118     | 53, 426     | .....           | .....    | .....   | .....                           | .....  | 18      |

## Vermilion County—

| Number.             | Name of operator.                  | Postoffice address of the mines. | Output of mines in tons. |         |               |           |
|---------------------|------------------------------------|----------------------------------|--------------------------|---------|---------------|-----------|
|                     |                                    |                                  | Mine run.                | Lump.   | Other grades. | Total.    |
| SHIPPING MINES.     |                                    |                                  |                          |         |               |           |
| 1                   | Bunsen Coal Co., Vermilion.....    | Westville.....                   | 76,989                   | 192,644 | 371,031       | 640,664   |
| 2                   | Busnen Coal Co., No. 4.....        | do.....                          | 94,682                   | 227,377 | 239,110       | 561,169   |
| 3                   | Dering Coal Co., No. 2.....        | do.....                          | 79,399                   | 139,461 | 108,087       | 326,947   |
| 4                   | Bunsen Coal Co., No. 2.....        | do.....                          | 112,760                  | 69,194  | 120,770       | 302,724   |
| 5                   | Dering Coal Co., No. 3.....        | Steeltown.....                   | 296,573                  | .....   | 4,530         | 301,103   |
| 6                   | Bunsen Coal Co., No. 3.....        | Westville.....                   | 174,672                  | 36,995  | 85,920        | 297,587   |
| 7                   | Dering Coal Co., No. 4.....        | Steeltown.....                   | 117,868                  | 49,274  | 35,513        | 202,655   |
| 8                   | Electric Coal Co.....              | Danville.....                    | 1,500                    | 120,214 | 80,143        | 201,857   |
| 9                   | Danville Col. Co.....              | Catlin.....                      | 38,319                   | 54,131  | 22,726        | 115,176   |
| 10                  | Tilton Coal Co., Comet.....        | Danville.....                    | 73,941                   | .....   | .....         | 73,941    |
| 11                  | Mission Mining Co., No. 1.....     | do.....                          | 15,000                   | 26,774  | 11,474        | 53,248    |
| 12                  | Black Diamond Coal Co., No. 1..... | do.....                          | 42,370                   | .....   | .....         | 42,370    |
| 13                  | Fairmount Coal Co., No. 1.....     | Fairmount.....                   | 38,250                   | .....   | .....         | 38,250    |
| 14                  | Bushong Bros., No. 1.....          | Muncie.....                      | 28,819                   | .....   | .....         | 28,819    |
| 15                  | Sharon C. & B. Co., No. 1.....     | Georgetown.....                  | 2,669                    | 8,272   | 6,774         | 17,715    |
| 16                  | Traer Coal Co., No. 1.....         | Danville.....                    | 3,155                    | 3,704   | 3,916         | 10,775    |
| 17                  | Missionfields Coal Co., No. 2..... | do.....                          | 3,576                    | .....   | .....         | 3,576     |
| 18                  | Missionfields Coal Co., No. 3..... | do.....                          | 500                      | 1,200   | 1,038         | 2,738     |
| Total.....          |                                    |                                  | 1,201,042                | 929,240 | 1,091,032     | 3,221,314 |
| LOCAL MINES.        |                                    |                                  |                          |         |               |           |
| 1                   | Contract Mining Co.....            | Danville.....                    | 70,916                   | .....   | .....         | 70,916    |
| 2                   | J. W. Mauck & Son.....             | do.....                          | 12,300                   | .....   | .....         | 12,300    |
| 3                   | Mauck & Spangler.....              | do.....                          | 2,224                    | 4,340   | 2,741         | 9,305     |
| 4                   | W. J. Watkins.....                 | do.....                          | 1,800                    | 3,640   | 1,820         | 7,260     |
| 5                   | John Aldredge.....                 | do.....                          | 6,000                    | .....   | .....         | 6,000     |
| 6                   | Joe Mauck.....                     | do.....                          | 6,000                    | .....   | .....         | 6,000     |
| 7                   | Bushong & Walker.....              | Catlin.....                      | .....                    | 3,300   | 1,500         | 4,800     |
| 8                   | Wm. C. Schafer.....                | Danville.....                    | 4,500                    | .....   | .....         | 4,500     |
| 9                   | W. F. Crawford & Son.....          | Collison.....                    | 1,000                    | 2,000   | 1,000         | 4,000     |
| 10                  | Geo. H. Haskins.....               | Grape Creek.....                 | 3,000                    | .....   | .....         | 3,000     |
| 11                  | C. C. Moulton.....                 | Danville.....                    | .....                    | 3,000   | .....         | 3,000     |
| 12                  | Henry Wonderlin.....               | do.....                          | 2,900                    | .....   | .....         | 2,900     |
| 13                  | Olson Bros.....                    | Grape Creek.....                 | .....                    | 1,900   | 950           | 2,850     |
| 14                  | L. Balducki.....                   | Fairmount.....                   | 2,600                    | .....   | .....         | 2,600     |
| 15                  | Hodges Coal Co.....                | Danville.....                    | 1,360                    | 850     | 350           | 2,569     |
| 16                  | Crawford Bros.....                 | Fairmount.....                   | 300                      | 1,200   | 300           | 1,800     |
| 17                  | John Olson.....                    | Danville.....                    | .....                    | 1,140   | 600           | 1,740     |
| 18                  | P. I. Ogden & Son.....             | do.....                          | 1,147                    | .....   | .....         | 1,147     |
| 19                  | James Thomas.....                  | do.....                          | 1,000                    | .....   | .....         | 1,000     |
| 20                  | T. P. Pearson.....                 | Catlin.....                      | 670                      | .....   | .....         | 670       |
| 21                  | W. A. Cole.....                    | Danville.....                    | 631                      | .....   | .....         | 631       |
| 22                  | J. W. Ewen.....                    | Grape Creek.....                 | 600                      | .....   | .....         | 600       |
| 23                  | Oscar Ellis.....                   | Danville.....                    | 600                      | .....   | .....         | 600       |
| 24                  | John Mitchell.....                 | Oakwood.....                     | 500                      | .....   | .....         | 500       |
| 25                  | House & Ritter.....                | Danville.....                    | 500                      | .....   | .....         | 500       |
| 26                  | Ed Lewis.....                      | do.....                          | 500                      | .....   | .....         | 500       |
| 27                  | Chas. High.....                    | do.....                          | 500                      | .....   | .....         | 500       |
| 28                  | Anthony Wilson.....                | do.....                          | 500                      | .....   | .....         | 500       |
| 29                  | Wm. Shepard.....                   | Catlin.....                      | 300                      | .....   | .....         | 300       |
| 30                  | John Ashby.....                    | Westville.....                   | 150                      | .....   | .....         | 150       |
| Total.....          |                                    |                                  | 122,498                  | 21,370  | 9,261         | 153,129   |
| Total—48 mines..... |                                    |                                  | 1,323,540                | 950,610 | 1,100,293     | 3,374,443 |

Mines reported 1911, 44.

New mines, 12.

Abandoned mines, 8.

Mines in 1912, 48.

## Fifth District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |         | Tons mined. |             | Acci-<br>dents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|---------|-------------|-------------|-----------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total.  | By hand.    | By machine. | Killed.         | Injured. |   | Horses.                         | Mules. |         |
| 628,739                           | 11,925          | 18,778                                 | 262                       | 239                       | 445                  | 684     | 320,481     | 320,183     | ...             | 8        | Both...                                       | ...                             | 34     | 1       |
| 553,405                           | 7,764           | 23,155                                 | 263                       | 410                       | 233                  | 643     | 561,169     | ...         | 2               | 3        | Solid...                                      | ...                             | 33     | 2       |
| 322,417                           | 4,530           | 11,990                                 | 206                       | 266                       | 119                  | 385     | 326,947     | ...         | 4               | 9        | do...   | ...                             | 23     | 3       |
| 292,589                           | 10,135          | 9,513                                  | 259                       | 142                       | 233                  | 375     | 170,059     | 132,665     | 4               | 1        | Both...                                       | ...                             | 20     | 4       |
| 296,573                           | 4,530           | 12,002                                 | 201                       | 262                       | 123                  | 385     | 301,103     | ...         | 2               | 10       | Solid...                                      | ...                             | 27     | 5       |
| 282,445                           | 15,142          | 5,960                                  | 265                       | 59                        | 237                  | 296     | 73,212      | 224,375     | 1               | 4        | Both...                                       | ...                             | 19     | 6       |
| 199,407                           | 3,248           | 8,482                                  | 201                       | 159                       | 83                   | 242     | 202,655     | ...         | 1               | 8        | Solid...                                      | ...                             | 27     | 7       |
| 197,477                           | 4,380           | 9,000                                  | 273                       | 180                       | 19                   | 199     | 201,857     | ...         | 1               | 13       | do...   | ...                             | 18     | 8       |
| 113,875                           | 1,301           | 5,433                                  | 227                       | 108                       | 40                   | 148     | 115,176     | ...         | 1               | ...      | do...   | ...                             | 11     | 9       |
| 70,941                            | 3,000           | 3,174                                  | 219                       | 63                        | 17                   | 80      | 73,941      | ...         | ...             | ...      | do...   | ...                             | 5      | 10      |
| 53,000                            | 248             | 500                                    | 232                       | ...                       | 70                   | 70      | 53,248      | ...         | ...             | 3        | do...   | ...                             | 2      | 11      |
| 42,370                            | ...             | 2,106                                  | 215                       | 48                        | 17                   | 65      | 42,370      | ...         | ...             | ...      | do...   | ...                             | 6      | 12      |
| 31,350                            | 6,900           | 2,130                                  | 181                       | 48                        | 20                   | 68      | 38,250      | ...         | 1               | ...      | do...   | ...                             | 6      | 13      |
| 25,000                            | 3,819           | 1,455                                  | 160                       | 30                        | 20                   | 50      | 28,819      | ...         | ...             | ...      | do...   | ...                             | 5      | 14      |
| 1,296                             | 16,419          | 583                                    | 195                       | 16                        | 10                   | 26      | 17,715      | ...         | 1               | ...      | do...   | ...                             | 2      | 15      |
| 10,480                            | 295             | 422                                    | 188                       | 14                        | 11                   | 25      | 4,625       | 6,150       | ...             | ...      | Both...                                       | ...                             | 3      | 16      |
| 3,576                             | ...             | 130                                    | 162                       | 8                         | 4                    | 12      | 3,576       | ...         | ...             | ...      | Solid...                                      | ...                             | 1      | 17      |
| 2,609                             | 129             | 100                                    | 131                       | 9                         | 11                   | 20      | 2,322       | 416         | ...             | ...      | do...   | ...                             | 1      | 18      |
| 3,127,549                         | 93,765          | 114,913                                | 213                       | 2,061                     | 1,712                | 3,773   | 2,537,525   | 683,789     | 18              | 59       | ...   | ...                             | 243    |         |
| 70,916                            | 1,900           | 304                                    | 29                        | 32                        | 61                   | 70,916  | ...         | ...         | ...             | ...      | ...   | ...                             | 1      |         |
| 12,300                            | 300             | 250                                    | 10                        | 3                         | 13                   | 12,300  | ...         | ...         | ...             | ...      | ...   | ...                             | 2      |         |
| 9,305                             | 609             | 168                                    | 8                         | 1                         | 9                    | 9,305   | ...         | ...         | ...             | ...      | ...   | ...                             | 3      |         |
| 7,260                             | 251             | 250                                    | 9                         | 3                         | 12                   | 7,260   | ...         | ...         | ...             | ...      | ...   | ...                             | 4      |         |
| 6,000                             | 200             | 275                                    | 4                         | 2                         | 6                    | 6,000   | ...         | ...         | ...             | ...      | ...   | ...                             | 5      |         |
| 6,000                             | 320             | 123                                    | 9                         | 2                         | 11                   | 6,000   | ...         | ...         | ...             | ...      | ...   | ...                             | 6      |         |
| 4,800                             | 195             | 200                                    | 4                         | 2                         | 6                    | 4,800   | ...         | ...         | ...             | ...      | ...   | ...                             | 7      |         |
| 4,500                             | 120             | 240                                    | 4                         | 5                         | 9                    | 4,500   | ...         | ...         | ...             | ...      | ...   | ...                             | 8      |         |
| 4,000                             | 163             | 240                                    | 10                        | 3                         | 13                   | 4,000   | ...         | ...         | ...             | ...      | ...   | ...                             | 9      |         |
| 3,000                             | 210             | 180                                    | 4                         | 2                         | 6                    | 3,000   | ...         | ...         | ...             | ...      | ...   | ...                             | 10     |         |
| 3,000                             | 200             | 160                                    | 4                         | 1                         | 5                    | 3,000   | ...         | ...         | ...             | ...      | ...   | ...                             | 11     |         |
| 2,900                             | 125             | 260                                    | 5                         | 1                         | 6                    | 2,900   | ...         | ...         | ...             | ...      | ...   | ...                             | 12     |         |
| 2,850                             | 86              | 155                                    | 3                         | ...                       | 3                    | 2,850   | ...         | ...         | ...             | ...      | ...   | ...                             | 13     |         |
| 2,600                             | 90              | 200                                    | 4                         | 1                         | 5                    | 2,600   | ...         | ...         | ...             | ...      | ...   | ...                             | 14     |         |
| 2,560                             | 102             | 250                                    | 5                         | 2                         | 7                    | 2,560   | ...         | ...         | ...             | ...      | ...   | ...                             | 15     |         |
| 1,800                             | 90              | 120                                    | 4                         | 1                         | 5                    | 1,800   | ...         | ...         | ...             | ...      | ...   | ...                             | 16     |         |
| 1,740                             | 69              | 78                                     | 6                         | 2                         | 8                    | 1,740   | ...         | ...         | ...             | ...      | ...   | ...                             | 17     |         |
| 1,147                             | 50              | 175                                    | 2                         | ...                       | 2                    | 1,147   | ...         | ...         | ...             | ...      | ...   | ...                             | 18     |         |
| 1,000                             | 50              | 100                                    | 4                         | 1                         | 5                    | 1,000   | ...         | ...         | ...             | ...      | ...   | ...                             | 19     |         |
| 670                               | 22              | 160                                    | 2                         | 3                         | 5                    | 670     | ...         | ...         | ...             | ...      | ...   | ...                             | 20     |         |
| 631                               | 33              | 50                                     | 6                         | 2                         | 8                    | 631     | ...         | ...         | ...             | ...      | ...   | ...                             | 21     |         |
| 600                               | 25              | 100                                    | 3                         | 3                         | 6                    | 600     | ...         | ...         | ...             | ...      | ...   | ...                             | 22     |         |
| 600                               | 30              | 100                                    | 1                         | 1                         | 2                    | 600     | ...         | ...         | ...             | ...      | ...   | ...                             | 23     |         |
| 500                               | 20              | 120                                    | 2                         | 2                         | 4                    | 500     | ...         | ...         | ...             | ...      | ...   | ...                             | 24     |         |
| 500                               | 20              | 125                                    | 2                         | ...                       | 2                    | 500     | ...         | ...         | ...             | ...      | ...   | ...                             | 25     |         |
| 500                               | 20              | 90                                     | 2                         | 3                         | 5                    | 500     | ...         | ...         | ...             | ...      | ...   | ...                             | 26     |         |
| 500                               | 20              | 200                                    | 2                         | 1                         | 3                    | 500     | ...         | ...         | ...             | ...      | ...   | ...                             | 27     |         |
| 500                               | 8               | 150                                    | 1                         | 1                         | 2                    | 500     | ...         | ...         | ...             | ...      | ...   | ...                             | 28     |         |
| 300                               | 18              | 100                                    | 1                         | ...                       | 1                    | 300     | ...         | ...         | ...             | ...      | ...   | ...                             | 29     |         |
| 150                               | 2               | 50                                     | 2                         | 2                         | 4                    | 150     | ...         | ...         | ...             | ...      | ...   | ...                             | 30     |         |
| 153,129                           | 5,348           | 166                                    | 152                       | 82                        | 234                  | 153,129 | ...         | ...         | ...             | ...      | ...   | ...                             | 243    |         |
| 3,127,549                         | 246,894         | 120,261                                | 184                       | 2,213                     | 1,794                | 4,007   | 2,690,654   | 683,789     | 18              | 59       | ...   | ...                             | 243    |         |

*Shipping mines—recapitulation by*

| Counties.      | Number of mines. | Productions of different grades in tons. |           |        |         |         |         | Total.    | Disposition of out-put—tons. |                 |
|----------------|------------------|--|-----------|--------|---------|---------|---------|-----------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.     | Egg.   | Nut.    | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Christian..... | 8                | 566,083                                  | 347,536   | 5,984  | 44,901  | 312,333 | 63,666  | 1,340,503 | 1,017,795                    | 322,708         |
| Macon.....     | 5                | 44,503                                   | 131,071   | 29,325 | 8,253   | 43,688  | 14,786  | 271,626   | 116,273                      | 155,353         |
| Moultrie.....  | 1                | 1,298                                    | 24,186    | 4,175  | 4,021   | 14,007  | 5,575   | 54,162    | 44,921                       | 9,241           |
| Shelby.....    | 2                | 4,531                                    | 44,341    | 19,414 | 10,793  | 31,348  | 4,408   | 114,835   | 90,630                       | 24,205          |
| Vermilion..... | 18               | 1,201,042                                | 929,240   | 40     | 139,492 | 287,004 | 664,496 | 3,221,314 | 3,127,549                    | 93,765          |
| Total.....     | 34               | 1,817,457                                | 1,476,374 | 58,938 | 207,460 | 689,280 | 752,931 | 5,002,440 | 4,397,168                    | 605,272         |

*Local mines—recapitulation by*

| Counties.       | Number of mines. | Productions of different grades in tons. |           |        |         |         |         | Total.    | Disposition of out-put—tons. |                 |
|-----------------|------------------|--|-----------|--------|---------|---------|---------|-----------|------------------------------|-----------------|
|                 |                  | Mine run.                                | Lump.     | Egg.   | Nut.    | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Christian.....  | 1                | .....                                    | 3,000     | .....  | 2,688   | .....   | .....   | 5,688     | .....                        | 5,688           |
| Shelby.....     | 6                | 1,006                                    | 12,321    | .....  | .....   | .....   | 382     | 13,709    | .....                        | 13,709          |
| Vermilion....   | 30               | 122,498                                  | 21,370    | .....  | .....   | 4,100   | 5,161   | 153,129   | .....                        | 153,129         |
| Total.....      | 37               | 123,504                                  | 36,691    | .....  | 2,688   | 4,100   | 5,543   | 172,526   | .....                        | 172,526         |
| The District... | 71               | 1,940,961                                | 1,513,065 | 58,938 | 210,148 | 693,380 | 758,474 | 5,174,966 | 4,397,168                    | 777,798         |

Whole number of mines reported for 1911, 67.

Number of new mines opened during the year, 14.

Number of mines abandoned during the year, 10.

Whole number of mines reported for 1912, 71.

*counties—Fifth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |       |         |                   |        |           | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|-------|---------|-------------------|--------|-----------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |       |         | All above ground. | Total. |           | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Boys. | Others. |                   |        |           |             |             |                  |                |                    |
| 29,804                                 | 144                       | 1,473        | 378   | 42      | 165               | 2,058  | 1,164,987 | 175,516     | 537,498     | 803,005          | .....          | .....              |
| 4,745                                  | 166                       | 427          | 118   | 6       | 46                | 597    | 271,626   | .....       | 271,626     | .....            | .....          | .....              |
| 415                                    | 229                       | 48           | 8     | .....   | 12                | 68     | 54,162    | .....       | .....       | 54,162           | .....          | .....              |
| 1,525                                  | 122                       | 119          | 62    | 8       | 22                | 211    | 61,409    | 53,426      | 61,409      | 53,426           | .....          | .....              |
| 114,913                                | 213                       | 2,061        | 1,404 | 56      | 252               | 3,773  | 2,537,525 | 683,789     | 1,969,564   | 1,251,750        | .....          | .....              |
| 151,402                                | 185                       | 4,128        | 1,970 | 112     | 497               | 6,707  | 4,089,709 | 912,731     | 2,840,097   | 2,162,343        | .....          | .....              |

*counties—Fifth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        |           | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-----------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. |           | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |           |             |             |                  |                |                    |
| 250                                    | 88                        | 7            | 4       | ..... | 2                 | 13     | 5,688     | .....       | .....       | .....            | .....          | .....              |
| .....                                  | 217                       | 50           | .....   | ..... | 14                | 64     | 13,709    | .....       | .....       | .....            | .....          | .....              |
| 5,348                                  | 166                       | 152          | 20      | 9     | 53                | 234    | 153,129   | .....       | .....       | .....            | .....          | .....              |
| 5,598                                  | 172                       | 209          | 24      | 9     | 69                | 311    | 172,526   | .....       | .....       | .....            | .....          | .....              |
| 157,000                                | 178                       | 4,337        | 1,994   | 121   | 562               | 7,018  | 4,262,235 | 912,731     | .....       | .....            | .....          | .....              |

*All mines—recapitulation by*

| Counties.      | Number of mines. | Productions of different grades in tons. |           |        |         |         |         | Total.    | Disposition of out-put—tons. |                 |
|----------------|------------------|--|-----------|--------|---------|---------|---------|-----------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.     | Egg.   | Nut.    | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Christian..... | 9                | 566,083                                  | 350,536   | 5,984  | 47,589  | 312,333 | 63,666  | 1,346,191 | 1,017,795                    | 328,396         |
| Macon.....     | 5                | 44,503                                   | 131,071   | 29,325 | 8,253   | 43,688  | 14,786  | 271,626   | 116,273                      | 155,353         |
| Moultrie.....  | 1                | 1,298                                    | 24,186    | 4,175  | 4,021   | 14,907  | 5,575   | 54,162    | 44,921                       | 9,241           |
| Shelby.....    | 8                | 5,537                                    | 56,662    | 19,414 | 10,793  | 31,348  | 4,790   | 128,544   | 90,630                       | 37,914          |
| Vermilion..... | 48               | 1,323,540                                | 950,610   | 40     | 139,492 | 291,104 | 669,657 | 3,374,443 | 3,127,549                    | 246,894         |
| Total .....    | 71               | 1,940,961                                | 1,513,065 | 58,938 | 210,148 | 693,380 | 758,474 | 5,174,966 | 4,397,168                    | 777,798         |

*counties—Fifth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |       |         |                   |        |           | Tons mined. |                  | Blasting coal. |                    |  |
|--|---------------------------|--------------|-------|---------|-------------------|--------|-----------|-------------|------------------|----------------|--------------------|--|
|  |                           | Underground. |       |         | All above ground. | Total. | By hand.  | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |  |
|  |                           | Miners.      | Boys. | Others. |                   |        |           |             |                  |                |                    |  |
| 30,054                                 | 137                       | 1,480        | 382   | 42      | 167               | 2,071  | 1,170,675 | 175,516     | .....            | .....          | .....              |  |
| 4,745                                  | 166                       | 427          | 118   | 6       | 46                | 597    | 271,626   | .....       | .....            | .....          | .....              |  |
| 415                                    | 229                       | 48           | 8     | .....   | 12                | 68     | 54,162    | .....       | .....            | .....          | .....              |  |
| 1,525                                  | 193                       | 169          | 62    | 8       | 36                | 275    | 75,118    | 53,426      | .....            | .....          | .....              |  |
| 120,261                                | 184                       | 2,213        | 1,424 | 65      | 303               | 4,007  | 2,690,654 | 683,789     | .....            | .....          | .....              |  |
| 157,000                                | 178                       | 4,337        | 1,994 | 121     | 564               | 7,018  | 4,262,235 | 912,731     | .....            | .....          | .....              |  |

## SIXTH INSPECTION DISTRICT—1912.

### ANNUAL REPORT.

Counties—Logan, McLean, Sangamon.

THOMAS P. BACK, *Inspector*, Springfield.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Logan, McLean and Sangamon.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|   |           |
|---|-----------|
| Number of counties producing coal.....                | 3         |
| Number of shipping mines.....                         | 35        |
| Number of local mines.....                            | 5         |
| Number of new or reopened mines.....                  | 2         |
| Number of closed or abandoned mines.....              | 2         |
| Number of miners.....                                 | 5,243     |
| Others underground, men.....                          | 2,184     |
| Boys underground.....                                 | 171       |
| Boys above ground.....                                | 4         |
| Others above ground.....                              | 657       |
| Total number of employees.....                        | 8,259     |
| Total tons of coal produced.....                      | 6,014,872 |
| Days of active operation, all mines.....              | 169       |
| Kegs of powder used for blasting coal.....            | 252,473   |
| Tons of coal shipped.....                             | 5,326,081 |
| Tons supplied to locomotives.....                     | 97,039    |
| Tons sold to local trade.....                         | 406,874   |
| Tons consumed and wasted at the mines.....            | 184,878   |
| Number of fatal accidents.....                        | 6         |
| Number of non-fatal accidents.....                    | 24        |
| Number of employees to each fatal accident.....       | 1,377     |
| Number of employees to each non-fatal accident.....   | 344       |
| Tons of coal produced to each fatal accident.....     | 1,002,479 |
| Tons of coal produced to each non-fatal accident..... | 25,203    |
| Ratio of fatal accidents per 1,000 employees.....     | .73       |

The following table shows the output in tons by counties for the years ended June 30, 1911 and 1912, with the increase in each:

| Counties.     | Total output—tons. |           | Increase. |
|---------------|--------------------|-----------|-----------|
|               | 1911.              | 1912.     |           |
| Logan.....    | 304,099            | 429,555   | 125,456   |
| McLean.....   | 89,925             | 96,898    | 6,973     |
| Sangamon..... | 4,716,401          | 5,488,419 | 772,018   |
| Total.....    | 5,110,425          | 6,014,872 | 904,447   |



## NEW AND ABANDONED MINES.

No new mines have been opened and but two have been abandoned or closed down this year.

## CHANGE OF OWNERSHIP.

The local mine at Salisbury, Sangamon County, formerly known as the A. S. Cronister mine is now operated by H. C. Brandt. Two mines at Pleasant Plains, Sangamon County, formerly known as the Ed. Galladay mine and the Coöperative Coal Company's mine have changed hands and the former is now operated by John Goetz and the latter by the Citizens Coal Co.

## IMPROVEMENTS.

The Tuxhorn Coal Company's Springfield mine, Keys, Sangamon County, made improvements during the year as follows: New steel I-beams in their track scales, reservoir with a capacity of 800,000 gallons, enlarged tunnel of air shaft, raised and lengthened screens, and installed a 96 H. P. O'Brien tubular boiler 6x18 with 26 inch flues and now relaying all mine tracks to install motor haulage.

The Springfield Coal Mining Company has raised the sheave wheels ten feet and installed a new boiler, size 72 inches by 18 feet, with seventy 4-inch flues at No. 2 mine, Riverton, Sangamon County. The company has put in at No. 5 mine, Springfield, two 10-ton gasoline motors and is now putting in new steel structures for shaker screens.

The Cantrall Coöperative Coal Company, put in at the Cantrall mine, Sangamon County, improvements as follows: Nine thousand three hundred feet new 25 pound rails from bottom to face of works, one 100 K. W. generator, one 15x16 McEuen engine, 100 K. W. switch board, one 8-ton Jeffrey electric locomotive, one 150 H. P. tubular boiler, and remodeled the engine and boiler rooms, and also put in fifty new mine cars. The cost of these improvements was \$16,000.00. The company has put in, at the Republic mine, Springfield, a new track scale.

The Chicago, Wilmington & Vermilion Coal Company at mine No. 1, Thayer, Sangamon County, has installed the latest improved Jeffrey fan, 5 feet by 16 feet, direct connected to Ridgeway engine, 19 inches by 20 inches, also a 100 ton 80-foot Fairbank track scales with steel bearings and had the other two track scales rebuilt and set on steel bearings same as the new scale. The company has constructed a new washing plant, known as the Stewart Washer, with a capacity in 8 hours of 1,200 tons. The washer is built to make the following grades of coal: No. 1, No. 2, and No. 3, washed nut No. 4, washed pea and No. 5 washed slack, with appliances for making any mixtures of the above grades required by the trade. Extensive improvements below have been made, among which was blasting down the roof and raising the track 12 feet to give the loads gravity to run to the cage.

The Williamsville Coal Company has installed at its mine, Selbytown, Sangamon County, a new Jeffrey ventilating fan, 6 feet, double inlet, reversible, with a guaranteed capacity of 75,000 cubic feet per minute, delivered against a mine resistance of 4-inch water gauge. The fan in its present condition will deliver 40,000 cubic feet of air against a 2.4 inch water gauge, or 50,000 against 3.7 inch water gauge. The fan is driven by a 11-inch by 15-inch Erie engine. The company has also constructed a concrete tunnel from the fan to the air shaft, and retimbered the air and escape shaft throughout, and put new stairs in the escape shaft.

The Illinois Midland Coal Company has installed four new Erie boilers 6 feet by 18 feet, with seventy 4-inch flues each, rated 150 H. P., and one 10-ton Whitcomb gasoline motor at the Peabody mine, Sherman, Sangamon County.

The Madison Coal Corporation, at the No. 6 mine, Divernon, Sangamon County, has installed on the shaft bottom the automatic safety mine car

caging machine, made in Bowerston, Ohio. This machine holds a car in readiness until the cage reaches the bottom, when it trips a spring, releasing the car which runs on the cage by gravity.

#### MINE FIRES.

On the morning of May 5, 1912, the top works of the Spaulding Coal Company's mine at Spaulding, Sangamon County, caught fire and were entirely destroyed, including fan, engine and boiler room.

May 9, 1912, a fire broke out in the McLean County Coal Co.'s mine, at Bloomington, McLean County, in No. 1 drop shaft, located about 3,000 feet from the bottom of the hoisting shaft. There are two seams of coal being worked in this mine and the coal from the upper seam is lowered by drop shafts to the lower seam and hoisted from there to the surface. The mine examiner, on going into the mine at eleven o'clock p. m., discovered that No. 1 drop shaft was on fire and gave the alarm. The management got the mules out of the lower seam to the surface, but the fire had gained such headway that they were unable to get the mules from the upper seam. They then sealed both the hoisting and escape shafts and left them sealed for thirty days. On June 10, 1912, I called up Hector McAllister and John Dunlop, mine inspectors, to assist me in entering the mine to ascertain the extent of damage and to see if the fire was extinguished. We entered the mine on the afternoon of the tenth, but did not succeed in reaching the top of the burned drop shaft until next day, owing to the pressure of so much blackdamp. We could not detect the presence of any fire and left. On June 12, the company called me and said the fire had again broken out. I then proceeded to the mine and asked Mr. Dunlop to come and assist me in directing the work. After staying there all week we had the pleasure of leaving the mine with all temporary stoppings built and the workmen busily engaged in putting in brick stoppings. No fire or smoke has since appeared. The cause of the fire is unknown, but is supposed to have been from a pit lamp igniting timber, which would readily burn, as this is a very dry mine, and the drop shaft being in the main air current. I desire to express my thanks to Mr. McAllister and Mr. Dunlop for their valuable assistance in this case.

#### FATAL ACCIDENTS.

July 11, 1911, Alvey Byers, weighman, aged 25 years, married, was killed by the tower of the Black Diamond Coal Company's mine falling on him. He leaves a widow and one child.

August 17, 1911, George Peddie, miner, aged 26 years, married, was killed by a fall of slate in the Wabash Coal Company's mine, Dawson, Sangamon County. Deceased was loading a car of coal at the face of the entry, known as the Peddie entry, when, about 2:30 p. m., the slate fell and struck him on the back of the neck. He had been working in the place since morning, but evidently did not know the slate had become loose. He leaves a widow.

October 17, 1911, Ralph Sunman, driver, aged 20 years, single, died at St. John's hospital, Springfield, from injuries received in the Tuxhorn Coal Co.'s mine, Keys, Sangamon County, on May 13, 1911, by a trip of pit cars.

November 14, 1911, Harry Denny, miner, aged 18 years, single, met his death in the Latham Coal Company's mine at Lincoln, Logan County. Deceased was taken ill in his room in the mine about 10:30 a. m. He came out to the entry and sat down, then fell over and never regained consciousness. The verdict of the coroner's jury was that death was caused by asphyxia.

January 12, 1912, Leonard Gorenflo, top foreman, aged 32 years, married, was killed by being struck in the chest with a hook, at the Jones and Adams Coal Company's Peerless mine, Springfield, Sangamon County. Deceased was pulling down empty cars to the tippie with a cable, and, instead of going up the lump coal track with the hook to attach the car, he crossed it between the timbers dividing the tracks, thereby pulling crossway of the tracks. When the car was on the scales he ran to unhook the rope when

it broke loose from the car and struck him in the breast breaking a rib which penetrated the lung, causing internal hemorrhage. The accident occurred at 9:50 a. m., and he lived till 1:45 p. m. He leaves a widow and two children.

January 20, 1912, Martin Yawcanskie, miner, aged 35 years, married, was seriously burned by an explosion of powder at the Illinois Midland Coal Company's Victor mine, Pawnee, Sangamon County. No one knows how the accident occurred, but, on examination, there was found a broken powder keg, a tamping bar and a steel scraper. The accident occurred about 11:30 a. m., January 20th, and he died at 3:00 o'clock p. m., Feb. 1, 1912.

I desire to express my thanks and appreciation to Mr. Robert Reavley of Riverton, County Mine Inspector for Sangamon County, for his valuable assistance to me on coming to the sixth inspection district. I also wish to thank Mr. William Woodson of Springfield and Mr. Wm. Schieler of Lincoln for their good will and assistance to me in my work.

Respectfully submitted,

THOMAS P. BACK,

*State Inspector of Mines, Sixth District, Springfield, Ill.*

*Fatal casualties—Sixth District—June 30, 1912.*

| Date.   | Name.                 | Age. | Occupation.   | Residence.       | Married.<br>Single. | Widow. | Children. | Dependents. | Cause of death.       |
|---------|-----------------------|------|---------------|------------------|---------------------|--------|-----------|-------------|-----------------------|
| 1911.   |                       |      |               |                  |                     |        |           |             |                       |
| July 11 | Alvey Byers.....      | 25   | Weighman..... | Auburn.....      | 1                   | 1      | 1         | 2           | Falling tower.....    |
| Aug. 17 | George Peddie.....    | 26   | Miner.....    | Dawson.....      | 1                   | 1      | 1         | 1           | Falling slate.....    |
| 17      | Ralph Sunman.....     | 20   | Driver.....   | Springfield..... | 1                   | 1      | 1         | 1           | Pit car.....          |
| Nov. 14 | Harry Denny.....      | 18   | Miner.....    | Lincoln.....     | 1                   | 1      | 1         | 1           | Asphyxiation.....     |
| 1912.   |                       |      |               |                  |                     |        |           |             |                       |
| Jan. 12 | Leon Gorenflo.....    | 32   | Foreman.....  | Springfield..... | 1                   | 1      | 2         | 3           | Struck with hook..... |
| Feb. 1  | Martin Yancauski..... | 35   | Miner.....    | Pawnee.....      | 1                   | 1      | 3         | 4           | Powder explosion..... |
|         | Total.....            |      |               |                  | 4                   | 2      | 4         | 6           | 10                    |

*Recapitulation of fatal accidents—Sixth District—1912.*

| Residence.       | No. | Occupation.   | No. | Cause of accident.    | No. | Colliery.          | No. |
|------------------|-----|---------------|-----|-----------------------|-----|--------------------|-----|
| Auburn.....      | 1   | Drivers.....  | 1   | Asphyxiation.....     | 1   | Black Diamond..... | 1   |
| Dawson.....      | 1   | Foreman.....  | 1   | Falling slate.....    | 1   | Ill. Midland.....  | 1   |
| Lincoln.....     | 1   | Miners.....   | 3   | Falling tower.....    | 1   | Jones & Adams..... | 1   |
| Pawnee.....      | 1   | Weighman..... | 1   | Pit car.....          | 1   | Latham.....        | 1   |
| Springfield..... | 2   |               |     | Powder explosion..... | 1   | Tuxhorn.....       | 1   |
|                  |     |               |     | Struck by hook.....   | 1   | Wabash.....        | 1   |
| Total.....       | 6   |               | 6   |                       | 6   |                    | 6   |

*Non-fatal casualties—Sixth District—June 30, 1912.*

| Date.    | Name.                 | Age. | Residence.       | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|----------|-----------------------|------|------------------|----------|---------|-----------|-------------|--|-----------------|
| 1911.    |                       |      |                  |          |         |           |             |  |                 |
| Sept. 16 | Dan Stavich.....      | 28   | Divernon.....    | 1        | ..      | 2         | 3           | Head injured, struck roof.....             | 30              |
| Oct. 3   | Fred Denton.....      | 45   | Springfield..... | 1        | ..      |           | 1           | Ankle broken, falling coal.....            | 42              |
| 14       | Clarence Skeyton..... | 30   | Pawnee.....      | ..       | 1       |           | ..          | Leg broken, falling rail.....              | 47              |
| 19       | Joe Kac.....          | 28   | ..do.....        | ..       | 1       |           | ..          | Back broken, falling coal.....             | *               |
| 31       | Ben Mechelette.....   | 39   | Selbytown.....   | 1        | ..      | 2         | 3           | Body burned, gas explosion.....            | 225             |
| Nov. 7   | L. Donato.....        | 25   | Ridgely.....     | ..       | 1       |           | ..          | Collar bone broken, pit car.....           | 39              |
| 8        | Ed. Hemrick.....      | 33   | Springfield..... | 1        | ..      | 3         | 4           | Body injured, pit car.....                 | 46              |
| 13       | Andy Kelly.....       | 26   | ..do.....        | ..       | 1       |           | ..          | Ankle injured, pit car.....                | 41              |
| 16       | Geo. Lonarchi.....    | 22   | Auburn.....      | 1        | ..      | 1         | 2           | Back broken, falling coal.....             | *               |
| 18       | Adam Stemkoski.....   | 50   | Divernon.....    | 1        | ..      | 2         | 1           | Leg injured, falling coal.....             | 37              |
| 21       | Geo. Karmiskey.....   | ..   | Ridgely.....     | ..       | 1       |           | ..          | Rib broken, pit car.....                   | 65              |
| 29       | Ed. Moore.....        | 24   | Springfield..... | ..       | 1       |           | ..          | Leg broken, pit car.....                   | 120             |
| 29       | Jos. Creighton.....   | 20   | ..do.....        | ..       | 1       |           | ..          | ..do.....                                  | 122             |
| Dec. 4   | Geo. Bailey.....      | 30   | ..do.....        | 1        | ..      |           | 1           | Ribs broken, pit cars.....                 | 30              |
| 9        | John Tonello.....     | 35   | ..do.....        | 1        | ..      | 3         | 4           | Body injured, blown out shot.....          | 37              |
| 28       | John Joblinski.....   | 30   | Lincoln.....     | 1        | ..      | 2         | 3           | Leg broken, pit car.....                   | 35              |
| 1912.    |                       |      |                  |          |         |           |             |  |                 |
| Feb. 29  | Dominick Klickna..... | 22   | Springfield..... | ..       | 1       |           | ..          | Pelvis bone broken, pit car.....           | 90              |
| Mar. 15  | Richard Burke.....    | 21   | ..do.....        | 1        | ..      | 1         | 2           | Foot broken, pit car.....                  | *               |
| 19       | Walter Fernandes..... | 32   | Divernon.....    | 1        | ..      | 1         | 2           | Pelvis bone broken, falling slate.....     | 60              |
| 22       | Russell Davison.....  | 18   | Pawnee.....      | ..       | 1       |           | ..          | Body injured, motor.....                   | 35              |
| 25       | Essex Jones.....      | 28   | Springfield..... | ..       | 1       |           | ..          | Leg broken, falling slate.....             | *               |
| May 27   | Marcelina Lucas.....  | 58   | Pawnee.....      | 1        | ..      |           | 1           | Rib broken, fell down.....                 | 33              |
| June 26  | John Wilson.....      | 25   | Springfield..... | ..       | 1       |           | ..          | Body injured, pit car.....                 | *               |
| 26       | John Carr.....        | 18   | ..do.....        | ..       | 1       |           | ..          | Shoulder injured, pit car.....             | *               |
|          | Total.....            |      |                  | 12       | 12      | 17        | 27          |  |                 |

\* Not returned to work July 1, 1912.

|   |    |
|---|----|
| Total number injured.....                     | 24 |
| Number not returned to work July 1, 1912..... | 6  |

|                              |    |
|------------------------------|----|
| Number returned to work..... | 18 |
|------------------------------|----|

|  |        |
|--|--------|
| Total days lost by men returned to work..... | 1, 134 |
| Average days lost.....                       | 63.00  |

*Recapitulation of non-fatal casualties—Sixth District—1912.*

| Residence.       | No. | Occupation.     | No. | Cause of accident.  | No. | Colliery.                | No. |
|------------------|-----|-----------------|-----|---------------------|-----|--------------------------|-----|
| Auburn.....      | 1   | Cager.....      | 1   | Blown out shot..... | 1   | Auburn & Alton.....      | 1   |
| Divernon.....    | 3   | Drivers.....    | 9   | Falling coal.....   | 4   | Capitol.....             | 2   |
| Lincoln.....     | 1   | Laborer.....    | 1   | Falling rail.....   | 1   | Chicago-Springfield..... | 4   |
| Pawnee.....      | 4   | Loader.....     | 1   | Falling slate.....  | 2   | Citizens.....            | 1   |
| Selbytown.....   | 1   | Machine runner  | 1   | Fell down.....      | 1   | Ill. Midland.....        | 4   |
| Springfield..... | 12  | Miners.....     | 8   | Gas explosion.....  | 1   | Jones & Adams.....       | 4   |
| Ridgely.....     | 2   | Shot-firer..... | 1   | Motor.....          | 1   | Madison.....             | 3   |
|                  |     | Switchman.....  | 1   | Pit cars.....       | 12  | Springfield Coop.....    | 1   |
|                  |     | Trapper.....    | 1   | Struck roof.....    | 1   | Williamsville.....       | 1   |
|                  |     |                 |     |                     |     | Woodslides.....          | 3   |
| Total.....       | 24  | .....           | 24  | .....               | 24  | .....                    | 24  |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Sixth District—1912.*

| Nature of injuries.     | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percentage of injuries. |
|-------------------------|---------|----------|---------|-----------|-------------|-----------------|----------|-------------------------|
|                         |         |          |         |           |             | Total.          | Average. |                         |
| Ankle broken.....       | 1       | 1        |         |           | 1           | 42              | 42.00    | 4.17                    |
| Ankle injured.....      | 1       |          | 1       |           |             | 41              | 41.00    | 4.17                    |
| Back broken.....        | 2       | 1        | 1       | 1         | 2           |                 |          | 8.33                    |
| Body burned.....        | 1       | 1        |         | 2         | 3           | 225             | 225.00   | 4.17                    |
| Body injured.....       | 4       | 2        | 2       | 6         | 8           | 118             | 39.33    | 16.66                   |
| Collar bone broken..... | 1       |          | 1       |           |             | 39              | 39.00    | 4.17                    |
| Foot broken.....        | 1       | 1        |         | 1         | 2           |                 |          | 4.17                    |
| Head injured.....       | 1       | 1        |         | 2         | 3           | 30              | 30.00    | 4.17                    |
| Legs broken.....        | 5       | 1        | 4       | 2         | 3           | 324             | 81.00    | 20.82                   |
| Leg injured.....        | 1       | 1        |         | 2         | 1           | 37              | 37.00    | 4.17                    |
| Pelvis bone broken..... | 2       | 1        | 1       | 1         | 2           | 150             | 75.00    | 8.33                    |
| Ribs broken.....        | 3       | 2        | 1       |           | 2           | 128             | 42.67    | 12.50                   |
| Shoulder injured.....   | 1       |          | 1       |           |             |                 |          | 4.17                    |
| Total.....              | 24      | 12       | 12      | 17        | 27          | 1,134           | 63.00    | 100.00                  |

*Logan County—*

| Number.            | Name of operator.              | Postoffice address of the mines. | Output of mines in tons. |         |               |         |
|--------------------|--------------------------------|----------------------------------|--------------------------|---------|---------------|---------|
|                    |                                |                                  | Mine run.                | Lump.   | Other grades. | Total.  |
| SHIPPING MINES.    |                                |                                  |                          |         |               |         |
| 1                  | Latham Coal Co., North.....    | Lincoln.....                     | 52,109                   | 91,626  | 83,851        | 227,586 |
| 2                  | Citizens Coal Mining Co.....   | do.....                          | 30,240                   | 32,821  | 32,910        | 95,971  |
| 3                  | Lincoln Mining Co., No. 1..... | do.....                          |                          | 56,000  | 35,000        | 91,000  |
| 4                  | Mt. Pulaski Col. Co.....       | Mt. Pulaski.....                 | 4,212                    | 6,328   | 4,458         | 14,998  |
| Total—4 mines..... |                                |                                  | 86,561                   | 186,775 | 156,219       | 429,555 |

Mines reported in 1911, 4.

Mines in 1912, 4.

*McLean County—*

| Number.         | Name of operator.                 | Postoffice address of the mines. | Output of mines in tons |        |               |        |
|-----------------|-----------------------------------|----------------------------------|-------------------------|--------|---------------|--------|
|                 |                                   |                                  | Mine run.               | Lump.  | Other grades. | Total. |
| SHIPPING MINES. |                                   |                                  |                         |        |               |        |
| 1               | McLean Co. Coal Co.....           | Bloomington...                   | 21,000                  | 40,279 | 15,874        | 77,153 |
| 2               | Colfax Coöperative Co., No 1..... | Colfax.....                      | 14,857                  | 3,847  | 1,041         | 19,745 |
|                 | Total—2 mines.....                | .....                            | 35,857                  | 44,126 | 16,915        | 96,898 |

Mines reported for 1911, 2.

Mines in 1912, 2.



*Sixth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                         | Mules. |         |
| 204,062                           | 23,524          | 11,519                                 | 203                       | 247                       | 106                  | 353    | 227,586     | .....       | 1           | ....     | Solid...                                      | ....                            | 32     | 1       |
| 45,629                            | 50,342          | 41,688                                 | 210                       | 86                        | 54                   | 140    | 95,971      | .....       | ....        | ....     | do.....                                       | ....                            | 23     | 2       |
| 60,000                            | 31,000          | 4,500                                  | 156                       | 90                        | 60                   | 150    | 91,000      | .....       | ....        | ....     | do.....                                       | ....                            | 10     | 3       |
| 2,800                             | 12,198          | 712                                    | 170                       | 25                        | 9                    | 34     | 14,998      | .....       | ....        | ....     | do.....                                       | ....                            | 3      | 4       |
| 312,491                           | 117,064         | 20,899                                 | 185                       | 448                       | 229                  | 677    | 429,555     | .....       | 1           | ....     | .....   | ....                            | 68     |         |

*Sixth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                         | Mules. |         |
| 1,380                             | 75,773          | .....                                  | 220                       | 119                       | 49                   | 168    | 77,153      | .....       | ....        | ....     | Solid...                                      | ....                            | 18     | 1       |
| 9,267                             | 10,478          | 1,000                                  | 232                       | 17                        | 15                   | 32     | 19,745      | .....       | ....        | ....     | do.....                                       | ....                            | 3      | 2       |
| 10,647                            | 86,251          | 1,000                                  | 226                       | 136                       | 64                   | 200    | 96,898      | .....       | ....        | ....     | .....   | ....                            | 21     |         |

*Sangamon County—*

| Number.             | Name of operator.                           | Postoffice address of the mines. | Output of mines in tons. |           |               |           |
|---------------------|---|----------------------------------|--------------------------|-----------|---------------|-----------|
|                     |   |                                  | Mine run.                | Lump.     | Other grades. | Total.    |
| SHIPPING MINES.     |   |                                  |                          |           |               |           |
| 1                   | Chi., Wil. & Ver. Coal Co., No. 1.....      | Thayer.....                      |                          | 118,022   | 368,118       | 486,140   |
| 2                   | Jones-Adams Coal Co., Peerless.....         | Springfield.....                 | 60,681                   | 155,651   | 256,048       | 472,380   |
| 3                   | Springfield Coal Mining Co., No. 2.....     | Riverton.....                    | 24,391                   | 143,320   | 221,226       | 388,937   |
| 4                   | Ill. Midland Coal Co., Victor 5.....        | Pawnee.....                      | 168,954                  | 75,205    | 138,429       | 382,588   |
| 5                   | Madison Coal Corporation, No. 6.....        | Divernon.....                    | 310,213                  | 19,318    | 25,119        | 354,650   |
| 6                   | Black Diamond Coal Co.....                  | Auburn.....                      | 30,701                   | 126,023   | 154,876       | 311,600   |
| 7                   | Woodside's Coal Co.....                     | Springfield.....                 | 87,162                   | 118,466   | 63,726        | 269,354   |
| 8                   | Ill. Midland Coal Co., No. 6.....           | Sherman.....                     | 4,195                    | 87,191    | 174,297       | 265,683   |
| 8                   | Capitol Coal Co., No. 2.....                | Springfield.....                 | 66,340                   | 83,059    | 73,393        | 222,792   |
| 10                  | Chi.-Springfield Coal Co., C. S.....        | do.....                          | 19,146                   | 76,595    | 103,737       | 199,478   |
| 11                  | Sangamon Coal Co.....                       | do.....                          | 22,436                   | 76,428    | 98,437        | 197,301   |
| 12                  | Springfield Coal Mining Co., No. 5.....     | do.....                          | 41,654                   | 85,352    | 64,628        | 191,634   |
| 13                  | Cora Coal Co.....                           | do.....                          | 34,782                   | 82,434    | 62,393        | 179,609   |
| 14                  | Auburn & Alton Coal Co.....                 | Anburn.....                      | 14,382                   | 92,961    | 20,581        | 127,924   |
| 15                  | T. J. O' Gara, Jefferson.....               | Springfield.....                 | 51,994                   | 40,518    | 28,832        | 121,344   |
| 16                  | West End Coal Co.....                       | do.....                          | 2,722                    | 61,539    | 55,000        | 119,261   |
| 17                  | Williamsville Coal Co.....                  | Selbytown.....                   | 5,633                    | 51,873    | 61,435        | 118,941   |
| 18                  | Cantrall Coö্প. Coal Co., Cantall.....      | Cantrall.....                    | 44,423                   | 35,554    | 37,314        | 117,291   |
| 19                  | Springfield Coö্প. Coal Co., New North..... | Springfield.....                 | 53,050                   | 35,920    | 26,330        | 115,300   |
| 20                  | Lefton Coal Co.....                         | Auburn.....                      | 5,310                    | 81,559    | 25,779        | 112,648   |
| 21                  | Wabash Coal Co., No. 1.....                 | Dawson.....                      | 16,972                   | 46,218    | 42,001        | 105,191   |
| 22                  | Citizens Coal Mining Co., A.....            | Springfield.....                 | 28,449                   | 35,681    | 29,168        | 93,298    |
| 23                  | Tuxhorn Coal Co.....                        | do.....                          | 7,104                    | 51,607    | 29,355        | 88,066    |
| 24                  | Barclay Coal & Mining Co.....               | Barclay.....                     | 11,273                   | 36,996    | 33,389        | 81,658    |
| 25                  | Spring Creek Coal Co.....                   | Springfield.....                 | 14,850                   | 35,990    | 24,613        | 75,453    |
| 26                  | Dickerson Coal Co., Empire.....             | do.....                          | 19,804                   | 36,451    | 18,608        | 74,863    |
| 27                  | Cantrall Coö্প. Coal Co., Republic.....     | do.....                          | 15,851                   | 28,968    | 24,960        | 69,779    |
| 28                  | Springfield Coal Co., No. 1.....            | Spaulding.....                   | 10,600                   | 8,000     | 18,888        | 37,488    |
| 29                  | Citizens Coal Mining Co., B.....            | Springfield.....                 | 7,125                    | 9,305     | 4,984         | 21,414    |
| Total.....          |   |                                  | 1,180,197                | 1,936,204 | 2,285,664     | 5,402,065 |
| LOCAL MINES.        |   |                                  |                          |           |               |           |
| 1                   | Lincoln Park C. & B. Co.....                | Springfield.....                 | 16,234                   | 21,790    | 21,856        | 59,880    |
| 2                   | Number Twelve Coal Co.....                  | do.....                          | 7,522                    | 10,150    | 5,513         | 23,185    |
| 3                   | Citizens Coal Co.....                       | Pleasant Plains.....             |                          | 936       | 312           | 1,248     |
| 4                   | H. C. Brandt Coal Co.....                   | Salisbury.....                   |                          | 842       | 349           | 1,191     |
| 5                   | John Goetz.....                             | Pleasant Plains.....             |                          | 650       | 200           | 850       |
| Total.....          |   |                                  | 23,756                   | 34,368    | 28,230        | 86,354    |
| Total—34 mines..... |   |                                  | 1,203,953                | 1,970,572 | 2,313,894     | 5,488,419 |

Mines reported for 1911, 36.

Abandoned mines, 2.

Mines in 1912, 34.

*Sixth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |         | Tons mined. |             | Accidents |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |       | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|---------|-------------|-------------|-----------|----------|---|--------------------------------|-------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total.  | By hand     | By machine. | Killed.   | Injured. |   | Horses.                        | Mules |         |
| 468,770                           | 17,370          | 4,932                                  | 199                       | 525                       | 525                  | 486,140 |             |             |           |          | U. C.   | 31                             | 1     |         |
| 462,448                           | 9,932           | 23,617                                 | 208                       | 370                       | 139                  | 472,380 |             |             | 1         | 4        | Solid.  | 26                             | 2     |         |
| 362,262                           | 26,675          | 17,265                                 | 192                       | 311                       | 87                   | 398,937 |             |             |           |          | do.   | 21                             | 3     |         |
| 364,392                           | 18,196          | 16,385                                 | 213                       | 354                       | 107                  | 382,588 |             |             | 1         | 4        | do.   | 26                             | 4     |         |
| 342,500                           | 12,150          | 3,232                                  | 132                       | 514                       | 514                  | 354,650 |             |             |           | 3        | U. C.   | 38                             | 5     |         |
| 305,720                           | 5,880           | 14,794                                 | 194                       | 225                       | 57                   | 311,600 |             |             | 1         |          | Solid.  | 14                             | 6     |         |
| 203,935                           | 65,419          | 13,090                                 | 200                       | 260                       | 87                   | 269,354 |             |             |           | 3        | do.   | 15                             | 7     |         |
| 260,697                           | 4,986           | 13,061                                 | 139                       | 295                       | 119                  | 265,683 |             |             |           |          | do.   | 34                             | 8     |         |
| 172,520                           | 50,542          | 10,089                                 | 212                       | 210                       | 95                   | 222,792 |             |             |           | 2        | do.   | 16                             | 9     |         |
| 194,729                           | 4,749           | 9,595                                  | 151                       | 200                       | 64                   | 199,478 |             |             |           | 4        | do.   | 34                             | 10    |         |
| 184,799                           | 12,502          | 9,793                                  | 203                       | 185                       | 64                   | 197,301 |             |             |           |          | do.   | 28                             | 11    |         |
| 185,812                           | 5,822           | 8,063                                  | 154                       | 205                       | 93                   | 191,634 |             |             |           |          | do.   | 42                             | 12    |         |
| 177,167                           | 2,442           | 8,693                                  | 163                       | 165                       | 52                   | 179,609 |             |             |           |          | do.   | 14                             | 13    |         |
| 116,953                           | 10,971          | 5,241                                  | 185                       | 150                       | 37                   | 127,924 |             |             |           | 1        | do.   | 16                             | 14    |         |
| 100,019                           | 21,325          | 7,173                                  | 202                       | 125                       | 50                   | 121,344 |             |             |           |          | do.   | 20                             | 15    |         |
| 90,320                            | 28,941          | 5,769                                  | 132                       | 162                       | 39                   | 119,261 |             |             |           |          | do.   | 12                             | 16    |         |
| 114,687                           | 4,254           | 5,719                                  | 169                       | 95                        | 47                   | 118,941 |             |             |           | 1        | do.   | 16                             | 17    |         |
| 103,786                           | 13,505          | 5,979                                  | 209                       | 109                       | 50                   | 117,291 |             |             |           |          | do.   | 10                             | 18    |         |
| 79,750                            | 35,550          | 5,539                                  | 206                       | 96                        | 42                   | 115,300 |             |             |           | 1        | do.   | 10                             | 19    |         |
| 109,648                           | 3,000           | 4,943                                  | 173                       | 160                       | 36                   | 112,648 |             |             |           |          | do.   | 16                             | 20    |         |
| 99,190                            | 6,001           | 6,130                                  | 200                       | 91                        | 49                   | 105,191 |             |             | 1         |          | do.   | 18                             | 21    |         |
| 85,471                            | 7,827           | 4,367                                  | 208                       | 91                        | 40                   | 93,298  |             |             |           | 1        | do.   | 16                             | 22    |         |
| 83,870                            | 4,196           | 5,600                                  | 124                       | 172                       | 65                   | 88,066  |             |             | 1         |          | do.   | 26                             | 23    |         |
| 75,985                            | 5,673           | 4,532                                  | 138                       | 95                        | 45                   | 81,658  |             |             |           |          | do.   | 11                             | 24    |         |
| 72,640                            | 2,813           | 3,670                                  | 124                       | 83                        | 30                   | 75,453  |             |             |           |          | do.   | 9                              | 25    |         |
| 69,557                            | 5,306           | 3,334                                  | 162                       | 87                        | 39                   | 74,863  |             |             |           |          | do.   | 10                             | 26    |         |
| 60,340                            | 9,439           | 3,288                                  | 163                       | 84                        | 46                   | 69,779  |             |             |           |          | do.   | 11                             | 27    |         |
| 34,600                            | 2,888           | 1,736                                  | 91                        | 95                        | 36                   | 37,488  |             |             |           |          | do.   | 20                             | 28    |         |
| 20,646                            | 759             | 975                                    | 45                        | 93                        | 47                   | 21,414  |             |             |           |          | do.   | 15                             | 29    |         |
| 5,002,943                         | 399,122         | 226,604                                | 169                       | 4,568                     | 2,681                | 7,249   | 4,561,275   | 840,790     | 5         | 24       |   | 3                              | 575   |         |
| 59,880                            | 2,810           | 188                                    | 57                        | 30                        | 87                   | 59,880  |             |             |           |          |   |                                |       | 1       |
| 23,185                            | 998             | 175                                    | 25                        | 8                         | 33                   | 23,185  |             |             |           |          |   |                                |       | 2       |
| 1,248                             | 50              | 78                                     | 4                         | 1                         | 5                    | 1,248   |             |             |           |          |   |                                |       | 3       |
| 1,191                             | 52              | 120                                    | 3                         | 2                         | 5                    | 1,191   |             |             |           |          |   |                                |       | 4       |
| 850                               | 60              | 110                                    | 2                         | 1                         | 3                    | 850     |             |             |           |          |   |                                |       | 5       |
| 86,354                            | 3,970           | 134                                    | 91                        | 42                        | 133                  | 86,354  |             |             |           |          |   |                                |       |         |
| 5,002,943                         | 485,476         | 230,574                                | 164                       | 4,659                     | 2,723                | 7,382   | 4,647,629   | 840,790     | 5         | 24       |   | 3                              | 575   |         |

*Shipping mines—recapitulation by*

| Counties.   | Number of mines. | Productions of different grades in tons. |           |         |         |           |         | Disposition of out-put—tons. |                              |                 |
|-------------|------------------|--|-----------|---------|---------|-----------|---------|------------------------------|------------------------------|-----------------|
|             |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.      | Slack.  | Total.                       | Loaded on cars for shipment. | Other purposes. |
| Logan.....  | 4                | 86,561                                   | 186,775   | 20,364  | 24,385  | 75,949    | 35,521  | 429,555                      | 312,491                      | 117,064         |
| McLean..... | 2                | 35,857                                   | 44,126    | 450     | 7,297   | 6,946     | 2,222   | 96,898                       | 10,647                       | 86,251          |
| Sangamon... | 29               | 1,180,197                                | 1,936,204 | 746,989 | 251,619 | 1,154,699 | 132,357 | 5,402,065                    | 5,002,943                    | 399,122         |
| Total....   | 35               | 1,302,615                                | 2,302,105 | 767,803 | 283,301 | 1,237,594 | 170,100 | 5,928,518                    | 5,326,081                    | 602,437         |

*Local mines—recapitulation by*

| Counties.     | Number of mines. | Productions of different grades in tons. |           |         |         |           |         | Disposition of out-put—tons. |                              |                 |
|---------------|------------------|--|-----------|---------|---------|-----------|---------|------------------------------|------------------------------|-----------------|
|               |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.      | Slack.  | Total.                       | Loaded on cars for shipment. | Other purposes. |
| Sangamon...   | 5                | 23,756                                   | 34,368    | 28,230  | .....   | .....     | .....   | 86,354                       | .....                        | 86,354          |
| Total....     | 5                | 23,756                                   | 34,368    | 28,230  | .....   | .....     | .....   | 86,354                       | .....                        | 86,354          |
| The District. | 40               | 1,326,371                                | 2,201,473 | 796,033 | 283,301 | 1,237,594 | 170,100 | 6,014,872                    | 5,326,081                    | 688,791         |

Whole number of mines reported for 1911, 42.

Number of mines abandoned during the year, 2.

Whole number of mines reported for 1912, 40.

*counties—Sixth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        |           | Tons mined. |  | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-----------|-------------|--|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. |           |             |  | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |           |             |  |                  |                |                    |
| 30,899                                 | 185                       | 448          | 129     | 17    | 83                | 677    | 429,555   | .....       |  | 429,555          | .....          | .....              |
| 1,000                                  | 226                       | 136          | 43      | 1     | 20                | 200    | 96,898    | .....       |  | 96,898           | .....          | .....              |
| 226,604                                | 169                       | 4,568        | 2,012   | 150   | 519               | 7,249  | 4,561,275 | 840,790     |  | 4,561,275        | 840,790        | .....              |
| 248,503                                | 174                       | 5,152        | 2,184   | 168   | 622               | 8,126  | 5,087,728 | 840,790     |  | 5,087,728        | 840,790        | .....              |

*counties—Sixth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        |           | Tons mined. |  | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-----------|-------------|--|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. |           |             |  | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |           |             |  |                  |                |                    |
| 3,970                                  | 134                       | 91           | .....   | 3     | 39                | 133    | 86,354    | .....       |  | .....            | .....          | .....              |
| 3,970                                  | 134                       | 91           | .....   | 3     | 39                | 133    | 86,354    | .....       |  | .....            | .....          | .....              |
| 252,473                                | 169                       | 5,243        | 2,184   | 171   | 661               | 8,259  | 5,174,082 | 840,790     |  | .....            | .....          | .....              |

*All mines—recapitulation by*

| Counties.   | Number of mines. | Productions of different grades in tons. |           |         |         |           |         | Total.    | Disposition of output—tons.  |                 |
|-------------|------------------|--|-----------|---------|---------|-----------|---------|-----------|------------------------------|-----------------|
|             |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.      | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Logan.....  | 4                | 86,561                                   | 186,775   | 20,364  | 24,385  | 75,949    | 35,521  | 429,555   | 312,491                      | 117,064         |
| McLean..... | 2                | 35,857                                   | 44,126    | 450     | 7,297   | 6,946     | 2,222   | 96,898    | 10,647                       | 86,251          |
| Sangamon... | 34               | 1,203,953                                | 1,970,572 | 775,219 | 251,619 | 1,154,699 | 132,357 | 5,488,419 | 5,002,943                    | 485,476         |
| Total....   | 40               | 1,326,371                                | 2,201,473 | 796,033 | 283,301 | 1,237,594 | 170,100 | 6,014,872 | 5,326,081                    | 688,791         |

counties—Sixth District—1912.

| Kegs of powder used for blasting coal. | Days of active operation. | Employees    |         |       |                   |        |           | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-----------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. |           | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |           |             |             |                  |                |                    |
| 20,899                                 | 185                       | 448          | 129     | 17    | 83                | 677    | 429,555   | .....       | .....       | .....            | .....          | .....              |
| 1,000                                  | 226                       | 136          | 43      | 1     | 20                | 200    | 96,898    | .....       | .....       | .....            | .....          | .....              |
| 230,574                                | 164                       | 4,659        | 2,012   | 153   | 558               | 7,382  | 4,647,629 | 840,790     | .....       | .....            | .....          | .....              |
| 252,473                                | 169                       | 5,243        | 2,184   | 171   | 661               | 8,259  | 5,174,082 | 840,790     | .....       | .....            | .....          | .....              |

## SEVENTH INSPECTION DISTRICT—1912.

## ANNUAL REPORT.

Counties—Calhoun, Greene, Jersey, Macoupin, Montgomery.

W. W. WILLIAMS, *Inspector*, Litchfield.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Calhoun, Greene, Jersey, Macoupin and Montgomery.

## SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|   |           |
|---|-----------|
| Number of counties producing coal.....                | 5         |
| Number of shipping mines.....                         | 23        |
| Number of local mines.....                            | 7         |
| Number of new or reopened mines.....                  | ..        |
| Number of closed or abandoned mines.....              | ..        |
| Number of miners.....                                 | 2,040     |
| Other underground, men.....                           | 4,599     |
| Boys underground.....                                 | 149       |
| Boys above ground.....                                | 6         |
| Others above ground.....                              | 583       |
| Total number of employees.....                        | 7,377     |
| Total tons of coal produced.....                      | 7,201,251 |
| Days of active operation, all mines.....              | 148       |
| Keys of powder used for blasting coal.....            | 91,740    |
| Tons of coal shipped.....                             | 6,759,975 |
| Tons supplied to locomotives.....                     | 58,688    |
| Tons sold to local trade.....                         | 119,873   |
| Tons consumed and wasted at the mines.....            | 262,715   |
| Number of fatal accidents.....                        | 23        |
| Number of non-fatal accidents.....                    | 84        |
| Number of employees to each fatal accident.....       | 321       |
| Number of employees to each non-fatal accident.....   | 88        |
| Tons of coal produced to each fatal accident.....     | 313,098   |
| Tons of coal produced to each non-fatal accident..... | 85,729    |
| Ratio of fatal accidents per 1,000 employees.....     | 3.12      |

The output in tons for the years ended June 30, 1911 and 1912, with the increase or decrease is shown by counties in the following table:

| Counties.         | Total output—tons. |           | Increase. | Decrease. |
|-------------------|--------------------|-----------|-----------|-----------|
|                   | 1911.              | 1912.     |           |           |
| Calhoun.....      | 1,775              | 1,660     | .....     | 115       |
| Greene.....       | 6,428              | 5,400     | .....     | 1,028     |
| Jersey.....       | 578                | 800       | 222       | .....     |
| Macoupin.....     | 4,279,386          | 4,913,050 | 633,664   | .....     |
| Montgomery.....   | 2,189,078          | 2,280,341 | 91,263    | .....     |
| Total.....        | 6,477,245          | 7,201,251 | 725,149   | 1,143     |
| Net increase..... | .....              | .....     | 724,006   | .....     |



## NEW AND ABANDONED MINES.

No new mines are reported in operation this year and none abandoned.

## CHANGE OF NAMES.

The Burnwell Coal Company, the Kortkamp Coal Company, and the Montgomery County Coal Company, will hereafter be operated under the name of Peabody Coal Company Nos. 11, 12, 14, and 15, respectively.

## IMPROVEMENTS.

Considerable improvements have been made in mine No. 5 of the Madison Coal Corporation, Mt. Olive, such as cleaning air courses, covering trolley wires, etc. A concrete oil house to keep the day's supply of oil in, also a concrete machine and motor repair shop in which to do the repairing of machines and motors, have been built in the mine.

The company has purchased three sets of Fleuss mine rescue apparatus with all necessary appliances, such as pump, oxygen tanks, etc.; also has a set of first aid charts; has material on hand now to build a rescue station which will be erected soon; has built a new brick blacksmith and machine shop and equipped it with machinery; has purchased one new lathe, making two lathes in use; also a new lathe for turning motor wheels.

The supply house has been rebuilt and the company is now nicely fixed to take care of the supplies. The buildings have all been painted and yards cleaned and graded and everything put in first-class shape for the winter.

The Consolidated Coal Company of St. Louis, in mine No. 14, reduced the electric voltage from 500 to 275 volts to comply with the law.

Two general electric 10-ton locomotives and one Sullivan type undercutting machine have been installed. The machine has a 6 feet 6 inches cutter bar and makes a continuous cut under the coal 6 feet 6 inches deep by 1 foot 6 inches across the working face in one minute, so that a room 30 feet wide is cut 6 feet 6 inches deep in twenty minutes without resetting the jacks or removing props, thus leaving the timber supports to the roof as they were originally placed by the miner. No manual labor is required in loading or unloading, or while the cut is being made. The machine performs all operations under its own power. It is provided with a self-propelling truck, thus enabling the operator to transport the machine from one working place to another without the aid of mule power, as is the case with other types of mining machines.

Two new Westinghouse electric generators are being installed, one of 800 kilowatts, eleven hundred horse power, and one of 150 kilowatts, two hundred horse power. The 800 K. W. generator generates the power to operate the mine locomotives and mining machines, while the 150 K. W. generator will furnish the power to operate the mine fans, pumps, and furnish light. The generators will be driven by steam turbines running condensers; a cooling tower 25 feet by 25 feet and 75 feet high, will be built to cool the water for the condensers. Steam will be supplied by twelve 72 inch by 18 feet horizontal tubular boilers, connected to a concrete chimney, 175 feet high, 8 feet inside diameter at the top. The capacity of the stack is 2,000 H. P. The twelve boilers are connected to the large chimney by flues built of  $\frac{1}{4}$ -inch American ingot iron. The furnaces under the boilers are equipped with automatic stokers, obviating hand firing. The coal used under the boilers will be conveyed from the coal washer by steel flight conveyors to large coal bins located overhead in the boiler house, so that the coal gravitates to the stokers, requiring no manual labor in the boiler house, except one man, whose duty will be to attend to the feed pumps, to keep the water in the boilers at its proper level. The ashes from the furnaces are conveyed out of the boiler house by steel flight conveyors to railroad cars provided for that purpose.

The No. 7 mine of this company, located at Staunton, Macoupin County, was closed down in August, 1909, on account of the antiquated equipment,

and the small shaft openings could not be operated successfully. This mine is now under way of being reopened. The hoisting shaft and air shaft are being enlarged, and when completed will be 8 feet 10 inches by 15 feet 6 inches. The mine track gauge will be widened from 22 inches to 42 inches. Three ton cars will be used in which the coal is transported from the working faces to the surface. The head works, hoisting tower and screen houses will be of steel construction and fireproof. The coal will be hoisted by one pair 24 inches by 36 inches Danville engines connected direct to an 8-foot diameter steel grooved drum. The electric power to operate the three 10-ton mine locomotives, twelve Sullivan continuous undercutting machines, mine fans and pumps, will be transmitted from No. 14 mine under pressure of 2,200 volts alternating current to the motor generator sets, where it is reduced from 2,200 volts A. C. to 275 volts D. C. The mine when completed, about Jan. 1, 1913, will have a capacity of 3,000 tons and give employment to five hundred men. In connection with this mine a coal washing plant of 1,200 tons capacity per eight hours is being built of the latest improved machinery for washing coal. The new washer will be built of steel and made fireproof.

In the No. 8 mine, Mt. Olive, the electric voltage was reduced from 500 volts to 275 volts. On account of the increasing demand for washed coal, 50 per cent of the coal hoisted from this mine is crushed at pit head, conveyed by steel flight conveyors to railroad cars and shipped to washing plants at Staunton and Mt. Olive, unloaded from the cars by unloading machinery and conveyed into the washery, where it is washed and again loaded in cars and shipped to market. At this mine two large coal bins, each 175 tons capacity, are located to supply engine coal for the Wabash engines. The coal used on the locomotives is also crushed to sizes from 6 inches down and conveyed by steel flight conveyors to the several bins. The ventilation for No. 8 mine is supplied by one 20-foot diameter fan, driven by electric motor, located at the old No. 10 mine, more than one mile away. The fan is incased in concrete walls, making every part fireproof, no wood or other inflammable material being used in the building. The power for driving the fan is generated at No. 8 mine and transmitted by overhead wires to the fan motor. At the bottom of the air shaft is located a triplex pump, electric driven, which starts as the water rises in the sump and when the water in the sump is exhausted, the pump will stop, being automatically cut out by an ingenious device operated by floates.

In mine No. 15, Mt. Olive, the electric voltage was reduced from 500 volts to 275 volts to comply with the State law. Two 10-ton electric locomotives have been installed at the mine to haul the coal from the workings to the shaft bottom. The cage landing at the shaft bottom has been lowered and the tracks graded, so that the loaded mine cars run by gravity to the cages. For empty car hauling, electrically driven machinery was installed, which hauls the empty cars up an incline of 5 feet 6 inches, when the empty cars again run by gravity to a point where the locomotives couple on and take them back in the works. Twelve cars per minute can be handled in this way.

The company has erected a new ventilator over the No. 10 mine at Mt. Olive to replace the one now over the No. 9 shaft.

The Burnwell Coal Company has installed electric motors in No. 2 mine at Witt.

The Shoal Creek Coal Company has built a new coal washer at the mine at Panama, to replace the one destroyed by fire on April 11, 1911.

The Peabody Coal Company suspended operations at No. 10 mine, Nokomis, for the purpose of erecting new top works, such as head frame, machinery, buildings, etc. This mine was sunk about six years ago, but so far has not been equipped as was originally contemplated.

The Superior Coal Company, Gillespie, has installed, at each of the three mines, a steel conical drum which very much facilitates the hoisting efficiency of the engines, lever throttles in place of the disc throttles, which are much easier to handle. The boiler plants have been improved by the installation of feed water heaters, automatic flue blowers, new pump lines, blow-off lines, etc. On the main steam header lines, condensing separators

have been installed with water traps attached which give a much better quality of steam. The improvements as now completed have added about 30 per cent to the efficiency of the plants. On the bottom of each mine, automatic block machines, or carstops, have been installed, increasing the facility for caging very materially. This is attested to by the phenomenal records made during the year at these mines. All previous records of these mines have been broken as well as the hoisting record of the State of Illinois. On Dec. 22, 1911, 4,468 13/20 tons were hoisted in eight hours.

In order to install this machinery at mine No. 1, it was necessary, on account of the grade, to sink the shaft two feet deeper and grade the bottom out on a profile made by the engineer, which included the rebuilding and regrading of all tracks adjacent to the bottom. This increase of the shaft required mechanical means for handling the empties at the bottom; they were therefore elevated by a traveling chain to a point where they would run by gravity, some three hundred feet away from the shaft, where the motors could get to them without going near the shaft. Gathering motors have also been installed at these mines.

In regard to measures of safety, first aid, mine rescue and inspection service, this company has made some material progress. The position of mine inspector, whose duty it is to go through the mine and observe any violations of the law by the company, or miners, and keep the main office informed at all times as to the condition of ventilation, fire-fighting equipment, traveling ways, etc., has been created.

A safety inspector, or face boss, as generally called in some places, has been employed to visit the working faces, talk with the miners, inform them on matters pertaining to their safety and give them such orders as he may deem necessary for their protection. This inspector is also under instructions to stop work at any place which he considers unsafe, until it is made safe; he is also to make a detailed record of all cases where he finds the miner neglectful of his own safety, which is filed in the main office.

The coöperation of the State and county inspectors, Miners' local officials, and every one interested in the work is enlisted and no effort is spared to make safety the first consideration at all times. Mottoes are printed on all pay envelopes of the miners, suggesting the importance of their looking after their own safety and warning them of the constant danger incident to coal mining.

The first aid corps was organized there at the time the rescue car, Superior, visited that place, and all expenses of their training and equipment was paid by the company. The interest in this work is maintained by the company as well as by the miners, and it is a source of pride to see the miners showing such zeal in the work. Red Cross emergency outfits are furnished at each mine and these first aid men are called on to attend every injury requiring surgical attention. This corps of first aid men are graduates of the Rescue Station at Springfield, and a class of students are being instructed by them in first aid and rescue work; regular sessions being held weekly for the purpose. To further equip this department the following has been purchased, to be used in the rescue stations at the mine: Three Draeger mouth breathing, 2-hour rescue apparatus, 3 Draeger emergency ½-hour capacity complete, 3 Fluess proto apparatus complete, 1 pulmotor complete, with extra oxygen cylinder, electric handlights, extra charging tanks, supply tanks, testing apparatus and complete recharging devices. This equipment is divided between the three mines and a properly arranged rescue station at the general office, where three sets of the apparatus with the pulmotor and the charging device will be kept for service at either mine.

#### FATAL ACCIDENTS.

July 20, 1911, B. Kohl, machine runner, aged 35 years, single, employed in Royal Colliery Company's mine No. 1, Virden, Macoupin County, was instantly killed by a shock from an electric wire.

July 26, 1911, Felix Catilans, shot firer, aged 35 years, single, was killed by a premature shot in the Royal Colliery Co.'s mine No. 1, Virden, Macoupin County.

July 29, 1911, John Kridel, driver, aged 21 years, single, was run over and killed in the Hillsboro Coal Company's mine, Hillsboro, Montgomery County.

August 2, 1911, Milt Lang, driver, aged 24 years, married, was killed by a fall of rock in the Clover Leaf Coal Company's mine No. 2, Coffeen, Montgomery County. He leaves a widow and two children.

September 13, 1911, Patrick Gallagher, miner, aged 37 years, married, employed in the Peabody Coal Company's No. 14 mine, Witt, Montgomery County, was killed by falling coal. Deceased was loading coal at the face of his room when a slab that had been loosened by his last shot fell killing him instantly. He leaves a widow and two children.

October 2, 1911, William Orr, timberman, aged 36 years, married, was killed by falling rock in a room which he was retimbering, in the mine of the Glenridge Coal Company, Virden, Macoupin County. He leaves a widow and three children.

October 14, 1911, William Kleinfelt, cager, aged 28 years, single, was killed by pit cars, in the Royal Colliery Company's mine, Virden, Macoupin County.

October 21, 1911, Herman Bentrup, loader, aged 55 years, married, employed at No. 14 mine of the Consolidated Coal Co., Staunton, Macoupin County, was killed by falling slate. He leaves a widow and four children.

October 25, 1911, Ed. Hankhouse, miner, aged 33 years, married, was killed by flying coal from a shot explosion in the mine of the Montgomery County Coal Company, Taylor Springs, Montgomery County. He leaves a widow and three children.

November 18, 1911, Nick Pickera, loader, aged 37 years, married, was killed by falling coal in the Superior Coal Co.'s mine No. 2, Gillespie, Macoupin County. He leaves a widow.

November 20, 1911, William Leithetter, driver, aged 22 years, married, employed in Shoal Creek Coal Co.'s No. 1 mine, Panama, Montgomery County, was killed by pit cars. He leaves a widow and one child.

November 23, 1911, Luza Yeese, miner, aged 48 years, married, was killed by pit cars in the Montgomery County Coal Co.'s mine, Taylor Springs, Montgomery County. He leaves a widow and three children.

February 22, 1912, Ben Hall, loader, aged 31 years, married, was killed by a fall of rock in the Superior Coal Co.'s mine No. 1, Sawyerville, Macoupin County. He leaves a widow and two children.

March 2, 1912, Joe Moscus, miner, aged 45 years, single, was killed by pit cars in the Royal Colliery Co.'s mine, Virden, Macoupin County.

March 23, 1912, Emilia Brasa, miner, aged 45 years, married, employed at the Hillsboro Coal Co.'s mine, Hillsboro, Montgomery County, was killed by pit cars. He leaves a widow and one child.

April 8, 1912, Carl Kortkamp, timberman, aged 55 years, married, employed in the mine of Hillsboro Coal Company, died from the effects of injuries received by pit cars on March 23. He leaves a widow and two children.

April 21, 1912, Jesse Eckles, foreman, aged 34 years, single, in the Montgomery County Coal Co.'s mine, Taylor Springs, was killed. Deceased was lying on the ground looking into the shaft when the cage came down striking him on the head almost severing it from the body.

April 23, 1912, Porter Caulk, driver, aged 22 years, single, was killed in a gas explosion in the Shoal Creek Coal Co.'s mine, Panama, Montgomery County.

April 25, 1912, Joe Payne, driver, aged 25 years, married, was killed by a gas explosion in the Shoal Creek Coal Co.'s mine, Panama, Montgomery County. He leaves a widow.

May 20, 1912, Ed. Ferguson, shot firer, aged 29 years, married, employed in the Vivian Colliery Company's mine, Greenridge, Macoupin County, was killed by flying coal. He leaves a widow and one child.

May 23, 1912, Chris. Moore, miner, aged 45 years, married, was killed by falling slate in No. 14 mine of the Peabody Coal Company, Witt, Montgomery County. He leaves a widow.

May 25, 1912, Orlinda Bernadene, driver, aged 26 years, single, employed in the Superior Coal Company's No. 1 mine, Gillespie, Macoupin County, was killed by pit cars.

June 14, 1912, Mike Brunetto, loader, aged 34 years, married, was killed by a fall of coal in the Superior Coal Company's No. 2 mine, Benld, Macoupin County.

Respectfully submitted,

W. W. WILLIAMS,

*State Inspector of Mines, Seventh District, Litchfield, Ill.*

*Fatal casualties—Seventh District—June 30, 1912.*

| Date.    | Name.             | Age. | Occupation.    | Residence.      | Married. | Single. | Widow. | Children. | Dependents. | Cause of death.  |
|----------|-------------------|------|----------------|-----------------|----------|---------|--------|-----------|-------------|------------------|
| 1911.    |                   |      |                |                 |          |         |        |           |             |                  |
| July 20  | B. Kohl           | 35   | Machine runner | Virden.         | 1        |         |        |           |             | Electrocuted.    |
| 26       | Felix Catilaus    | 35   | Shot firer     | do.             | 1        |         |        |           |             | Premature blast. |
| 29       | John Kriddel      | 21   | Driver         | Hillsboro.      | 1        |         |        |           |             | Pit cars         |
| Aug. 2   | Milt Lang         | 24   | Driver         | Coffeen.        | 1        | 1       | 2      | 3         |             | Falling rock     |
| Sept. 13 | Patrick Gallagher | 37   | Miner          | Burnwell.       | 1        | 1       | 2      | 3         |             | Falling coal     |
| Oct. 2   | Wm. Orr           | 36   | Timberman      | Virden.         | 1        | 1       | 3      | 4         |             | Falling rock     |
| 14       | Wm. Klienfelt     | 28   | Cager          | do.             | 1        | 1       |        |           |             | Pit cars.        |
| 21       | Herman Bentrup    | 55   | Loader         | Staunton.       | 1        | 1       | 4      | 5         |             | Falling slate.   |
| 25       | Ed Hankhouse      | 33   | Miner          | Hillsboro       | 1        | 1       | 3      | 4         |             | Shot explosion.  |
| Nov. 18  | Nick Pickera      | 37   | Loader         | Benld.          | 1        | 1       | 1      | 1         |             | Falling coal     |
| 20       | Wm. Leibeter      | 22   | Driver         | Sorento.        | 1        | 1       | 1      | 2         |             | Pit car          |
| 23       | Luza Yeese        | 48   | Miner          | Taylor Springs. | 1        | 1       | 3      | 4         |             | do.              |
| 1912.    |                   |      |                |                 |          |         |        |           |             |                  |
| Feb. 22  | Ben Hall          | 31   | Loader         | Gillespie       | 1        | 1       | 2      | 3         |             | Falling rock     |
| Mar. 2   | Joe Moscus        | 45   | Miner          | Virden.         | 1        | 1       |        |           |             | Pit cars         |
| 23       | Emilia Brasa      | 45   | do.            | Hillsboro       | 1        | 1       | 1      | 2         |             | do.              |
| Apr. 8   | Carl Kortkamp     | 55   | Timberman      | do.             | 1        | 1       | 2      | 3         |             | do.              |
| 21       | Jesse Eckles      | 34   | Foreman        | do.             | 1        | 1       |        |           |             | Cage descending  |
| 23       | Porter Caulk      | 22   | Driver         | Panama          | 1        | 1       |        |           |             | Gas explosion    |
| 23       | Joe Payne         | 25   | do.            | do.             | 1        | 1       | 1      | 1         |             | do.              |
| May 20   | Ed Ferguson       | 29   | Shot firers    | Farmersville.   | 1        | 1       | 1      | 2         |             | Flying coal      |
| 23       | Chris Moore       | 45   | Miner          | Nokomis.        | 1        | 1       | 1      | 1         |             | Falling slate.   |
| 25       | Orlinda Bernadene | 26   | Driver         | Benld           | 1        | 1       |        |           |             | Pit cars         |
| June 14  | Mike Brunetto     | 34   | Loader         | do.             | 1        | 1       | 4      | 5         |             | Falling coal     |
|          | Total             |      |                |                 | 15       | 8       | 15     | 28        | 43          |                  |

*Recapitulation of fatal casualties—Seventh District—1912.*

| Residence.     | No. | Occupation.    | No. | Cause of accident. | No. | Colliery.      | No. |
|----------------|-----|----------------|-----|--------------------|-----|----------------|-----|
| Benld.         | 3   | Cager          | 1   | Cage               | 1   | Clover Leaf    | 1   |
| Burnwell.      | 1   | Drivers        | 6   | Electrocuted       | 1   | Consolidated   | 1   |
| Coffeen.       | 1   | Foreman        | 1   | Falling coal       | 3   | Glenridge      | 1   |
| Farmersville   | 1   | Loaders        | 4   | Falling rock       | 3   | Hillsboro      | 3   |
| Gillespie      | 1   | Machine runner | 1   | Falling slate      | 2   | Montgomery Co. | 3   |
| Hillsboro      | 5   | Miners         | 6   | Flying coal        | 1   | Peabody        | 2   |
| Nokomis        | 1   | Shot firers    | 2   | Gas explosion      | 2   | Royal          | 4   |
| Panama         | 2   | Timbermen      | 2   | Pit cars           | 8   | Shoal Creek    | 3   |
| Staunton       | 1   |                |     | Premature blast    | 1   | Superior       | 4   |
| Sorento        | 1   |                |     | Shot explosion     | 1   | Vivian         | 1   |
| Taylor Springs | 1   |                |     |                    |     |                |     |
| Virden         | 5   |                |     |                    |     |                |     |
| Total          | 23  |                | 23  |                    | 23  |                | 23  |

*Non-fatal casualties—Seventh District—June 30, 1912.*

| Date.   | Name.              | Age. | Residence.   | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|---------|--------------------|------|--------------|----------|---------|-----------|-------------|--|-----------------|
| 1911.   |                    |      |              |          |         |           |             |  |                 |
| July 6  | Bernard Meyers     | 60   | Mt. Olive    | 1        |         | 4         | 4           | Foot injured, pit car                      | 42              |
| 31      | Mike Zacco         | 27   | Panama       | 1        | 1       |           |             | Head injured, mule                         | 165             |
| Aug. 11 | Reinhard Sandner   | 44   | Mt. Olive    | 1        |         | 6         | 5           | Rib broken, pit car                        | 34              |
| 17      | Tony Reginold      | 55   | do           | 1        |         | 10        | 5           | Body injured, pit car                      | 42              |
| 22      | John Colter        | 30   | do           | 1        |         |           |             | Hand injured, falling coal                 | 37              |
| Sept. 9 | Frank Suncek       | 25   | Sawyer ville | 1        | 1       |           |             | Leg broken, falling clod                   | 54              |
| 19      | James Burns        | 46   | Gillespie    | 1        |         | 5         | 6           | Ankle injured, falling coal                | 33              |
| 20      | John Magos         | 48   | Benld        | 1        |         | 3         | 4           | Arm broken, falling coal                   | 34              |
| 20      | Joe Coyo novch     | 21   | Sawyer ville | 1        | 1       |           |             | Eye injured, flying steel                  | 34              |
| 23      | Louis Fansina      | 31   | Greenridge   | 1        |         |           | 1           | Finger injured, falling coal               | 63              |
| 27      | Joe Mechalo chal   | 28   | Mt. Olive    | 1        |         | 2         | 3           | Leg broken, falling coal                   | 132             |
| 28      | John Boston        | 31   | do           | 1        | 1       | 1         | 1           | Collar bone broken, pit car                | 45              |
| 28      | Wade Rucher        | 42   | Girard       | 1        | 1       | 1         | 1           | Body injured, pit cars                     | 30              |
| Oct. 4  | T. H. Still        | 43   | Gillespie    | 1        | 3       | 4         | 4           | Head injured, falling coal                 | 48              |
| 6       | John Hoodick       | 32   | Nokomis      | 1        | 1       | 2         | 2           | Back injured, cage                         | 74              |
| 6       | James Keating      | 39   | do           | 1        | 4       | 5         | 5           | Leg broken, cage                           | *               |
| 6       | W. A. McLeon, Jr   | 17   | do           | 1        |         |           |             | Leg injured, cage                          | *               |
| 6       | Lyman Cheaney      | 16   | do           | 1        |         |           |             | do   | *               |
| 6       | Frank Patton       | 20   | do           | 1        |         |           |             | Foot broken, cage                          | 136             |
| 6       | Frank Gousheck     | 26   | do           | 1        |         |           | 1           | Leg broken, cage                           | *               |
| 6       | John Hill          | 46   | do           | 1        | 4       | 5         |             | do   | *               |
| 6       | J. W. Quesenbury   | 38   | do           | 1        | 3       | 4         | 4           | Foot broken, cage                          | 72              |
| 9       | Andy Rolando       | 28   | Greenridge   | 1        |         |           | 1           | Head injured falling slate                 | 30              |
| 19      | S. Vatal           | 31   | Mt. Olive    | 1        | 3       | 4         | 4           | Foot injured, falling coal                 | 31              |
| 21      | Hugh Osbourne      | 33   | Gillespie    | 1        |         |           |             | Arm broken, pit car                        | 72              |
| 25      | Chas. J. Ofew      | 38   | Hillsboro    | 1        |         |           | 1           | Back injured, falling coal                 | 32              |
| 31      | Backtolo Markazina | 58   | Girard       | 1        |         |           | 1           | Leg injured, falling coal                  | 91              |
| Nov. 31 | Frank Snook        | 37   | Gillespie    | 1        | 5       | 6         | 6           | Ankle broken, falling coal                 | 56              |
| 7       | Frank Baker        | 28   | Witt         | 1        |         |           |             | Body injured, kicked by mule               | 39              |
| 9       | Joseph Firth       | 42   | Gillespie    | 1        | 8       | 9         | 9           | Arm broken, falling coal                   | 60              |
| 13      | Ben Veast          | 32   | Witt         | 1        |         |           | 1           | Body injured, falling coal                 | 54              |
| 13      | Dom Weber          | 28   | Gillespie    | 1        |         |           |             | Ankle injured, fell down                   | 68              |
| 15      | William Gilbraith  | 30   | do           | 1        | 1       | 2         | 2           | Ankle injured, falling clod                | 60              |
| 20      | Anton Butkiis      | 43   | Greenridge   | 1        |         |           |             | Hand injured, falling clod                 | 60              |
| 21      | Gerhard Wilkins    | 40   | Mt. Olive    | 1        | 5       | 6         | 6           | Head injured, falling slate                | *               |
| 23      | Steve Phillips     | 23   | do           | 1        |         |           |             | Foot broken, falling coal                  | 60              |
| 26      | Jess Havron        | 28   | do           | 1        | 3       | 4         | 4           | Body burned, gas explosion                 | 74              |
| 29      | Jas. Hopley        | 22   | Witt         | 1        |         |           |             | Leg broken, pit car                        | 90              |
| 29      | John Marine        | 30   | do           | 1        |         |           |             | Foot injured, falling slate                | 37              |
| Dec. 5  | Tom Bellowelt      | 47   | Mt. Olive    | 1        | 9       | 8         | 8           | Ankle injured, struck with pick            | 34              |
| 7       | Roy Stewart        | 23   | Witt         | 1        | 2       | 2         | 2           | Ribs broken, pit car                       | 77              |
| 7       | Simon Massolumas   | 35   | do           | 1        | 2       | 3         | 3           | Finger broken, falling prop                | 33              |
| 7       | John Sendietlo     | 22   | White City   | 1        |         |           |             | Hand injured, pit car                      | 61              |
| 8       | Louis Valerio      | 38   | Gillespie    | 1        | 6       | 7         | 7           | Shoulder injured, falling prop             | 30              |
| 9       | Dave Hudson        | 38   | Virden       | 1        |         |           |             | Leg injured, pit car                       | 42              |
| 12      | John Connors       | 40   | Farmersville | 1        |         |           | 2           | Foot injured, falling rock                 | 30              |
| 12      | Win. D. Neil       | 52   | Staunton     | 1        | 4       | 5         | 5           | Ankle injured, fell down                   | 35              |
| 17      | Max Scholcher      | 25   | White City   | 1        |         |           | 2           | Arm broken, pit car                        | 235             |
| 19      | Thos. White        | 33   | do           | 1        | 2       | 3         | 3           | Body injured, falling coal                 | 69              |
| 19      | Joe Badnoratk      | 19   | Girard       | 1        |         |           |             | Foot injured, pit car                      | 30              |
| 26      | Grant Carlock      | 45   | Hillsboro    | 1        | 3       | 4         | 4           | Ankle broken, machine                      | 49              |
| 30      | Lawrence German    | 45   | Mt. Olive    | 1        | 1       | 2         | 2           | Leg broken, falling coal                   | 210             |
| 1912.   |                    |      |              |          |         |           |             |  |                 |
| Jan. 2  | Joe Simmons        | 28   | Benld        | 1        |         |           |             | Leg injured, pit car                       | 36              |
| 4       | Thos. Curry        | 24   | Sawyer ville | 1        |         |           |             | Body injured, falling coal                 | 30              |
| 4       | Edward Keenan      | 26   | Panama       | 1        |         |           |             | Ankle broken, pit car                      | 90              |
| 15      | Hy Schrader        | 21   | Mt. Olive    | 1        |         |           | 1           | Leg broken, falling coal                   | 148             |
| 16      | Joe J. Novak       | 35   | Panama       | 1        | 6       | 7         | 7           | do   | 240             |
| 16      | Frank Reginold     | 21   | Mt. Olive    | 1        |         |           |             | Leg injured, pit car                       | 34              |
| 20      | W. J. Jamison      | 29   | Nokomis      | 1        | 2       | 3         | 3           | Body injured, pit car                      | 108             |
| 20      | Melekusch, J.      | 34   | Girard       | 1        |         |           |             | Eye injured, flying sulphur                | 90              |
| 25      | Steven Yonsick     | 43   | do           | 1        |         |           |             | Body injured, falling coal                 | *               |
| 29      | C. Moccus          | 44   | Virden       | 1        |         |           |             | Hand injured, falling slate                | 30              |
| 30      | Gottfried Glur     | 60   | Girard       | 1        | 3       | 4         | 4           | Arm broken, falling prop                   | 40              |

*Non-fatal casualties—Seventh District—Concluded.*

| Date. | Name.                | Age. | Residence. | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident | Time lost—days. |
|-------|----------------------|------|------------|----------|---------|-----------|-------------|---|-----------------|
| Feb.  | 8 Ernest Viehweg     | 22   | Mt. Olive  | 1        |         |           | 1           | Hand injured, falling ice                 | 36              |
|       | 9 Henry Spellisey    | 17   | Witt       | 1        |         |           |             | Wrist broken, pit car                     | 60              |
|       | 14 John Mitchell     | 22   | Panama     | 1        |         |           |             | Shoulder broken, pit car                  | 200             |
|       | 19 Henry Nagli       | 35   | do.        | 1        |         |           |             | Leg injured, falling slate                | 90              |
|       | 26 Arch Lewey        | 20   | Coffeen    | 1        |         |           | 1           | Foot injured, pit car                     | 30              |
|       | 26 Ceasar Longo      | 30   | Gillespie  | 1        |         | 1         | 2           | Leg broken, motor                         | 31              |
|       | 26 Stanley White     | 25   | do.        | 1        |         |           |             | Body injured, pit car                     | *               |
| Mar.  | 1 Ben Robson         | 17   | Coffeen    | 1        |         |           |             | Leg broken, falling slate                 | *               |
|       | 2 Hy Sandner         | 27   | Mt. Olive  | 1        |         |           |             | Body injured, pit car                     | 101             |
|       | 8 Joe Fegak          | 30   | Panama     | 1        |         |           |             | Pelvis bone broken, falling clod          | *               |
|       | 12 John Sweeney      | 35   | do.        | 1        |         |           | 1           | Foot injured, machine                     | 180             |
|       | 15 John Worthington  | 35   | Witt       | 1        |         | 2         | 3           | Leg injured, falling coal                 | 60              |
|       | 15 Dominick Rossetti | 30   | Panama     | 1        |         |           |             | Rib broken, falling coal                  | 60              |
|       | 19 Tony Santovica    | 40   | do.        | 1        |         |           | 1           | Foot injured, falling coal                | 60              |
|       | 29 Thos. Lewis       | 30   | do.        | 1        |         |           |             | Pelvis bone broken, cage                  | 150             |
| May   | 17 Wm. Evans         | 38   | do.        | 1        |         | 3         | 4           | Leg broken, falling coal                  | 90              |
|       | 27 Daniel Ivers      | 55   | Mt. Olive  | 1        |         | 14        | 9           | Hand injured, falling slate               | 67              |
| June  | 1 Fred Freezeland    | 21   | Panama     | 1        |         | 2         | 3           | Jaw broken, pit car                       | 75              |
|       | 4 Nick Moore         | 26   | Mt. Olive  | 1        |         | 2         | 3           | Foot broken, pit car                      | 33              |
|       | 17 Herb Foudi        | 17   | Panama     | 1        |         |           |             | Face and arms burned, gas explosion       | 45              |
|       | 25 Joe Pok           | 22   | do.        | 1        |         |           |             | Hand injured, falling prop.               | 30              |
|       | Total                |      |            | 48       | 36      | 136       | 169         |   |                 |

\* Not returned to work July 1, 1912.

|  |       |
|--|-------|
| Total number injured                   | 84    |
| Not returned to work July 1, 1912      | 10    |
| Number returned                        | 74    |
| Time lost by men returned to work—days | 5,198 |
| Average days lost                      | 70.24 |

*Recapitulation of non-fatal casualties—Seventh District—1912.*

| Residence.   | No. | Occupation.    | No. | Cause of accident. | No. | Colliery.     | No. |
|--------------|-----|----------------|-----|--------------------|-----|---------------|-----|
| Benld        | 2   | Cagers         | 4   | Cage               | 9   | Burnwell      | 5   |
| Coffeen      | 2   | Coupler        | 1   | Falling clod       | 4   | Clover Leaf   | 2   |
| Farmersville | 1   | Drivers        | 17  | Falling coal       | 23  | Consolidated  | 11  |
| Gillespie    | 10  | Fireman        | 1   | Falling ice        | 1   | Girard        | 4   |
| Girard       | 6   | Laborers       | 6   | Falling props      | 4   | Hillsboro     | 2   |
| Greenridge   | 3   | Loaders        | 12  | Falling rock       | 1   | Madison Corp. | 11  |
| Hillsboro    | 2   | Machine runner | 5   | Falling slate      | 7   | Peabody       | 12  |
| Mt. Olive    | 18  | Mine examiner  | 1   | Fell down          | 2   | Royal         | 1   |
| Nokomis      | 9   | Mine manager   | 1   | Flying steel       | 1   | Shoal Creek   | 14  |
| Panama       | 14  | Miners         | 33  | Flying sulphur     | 1   | Superior      | 15  |
| Sawyer ville | 3   | Timberman      | 1   | Gas explosion      | 2   | Vivian        | 7   |
| Staunton     | 1   | Trappers       | 2   | Machine            | 2   |               |     |
| Vir den      | 2   |                |     | Motor              | 1   |               |     |
| White City   | 3   |                |     | Mule               | 1   |               |     |
| Witt         | 8   |                |     | Mule, kicked by    | 1   |               |     |
|              |     |                |     | Pick               | 1   |               |     |
|              |     |                |     | Pit cars           | 23  |               |     |
| Total        | 84  |                | 84  |                    | 84  |               | 84  |



*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Seventh District—1912.*

| Nature of injuries.       | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percentage of injuries. |
|---------------------------|---------|----------|---------|-----------|-------------|-----------------|----------|-------------------------|
|                           |         |          |         |           |             | Total.          | Average. |                         |
| Ankles broken.....        | 3       | 2        | 1       | 8         | 10          | 230             | 76.67    | 3.57                    |
| Ankles injured.....       | 5       | 4        | 1       | 19        | 21          | 224             | 44.80    | 5.95                    |
| Arms broken.....          | 5       | 3        | 2       | 14        | 19          | 420             | 84.00    | 5.95                    |
| Backs injured.....        | 2       | 2        | .....   | 1         | 3           | 106             | 53.00    | 2.38                    |
| Body burned.....          | 1       | 1        | .....   | 3         | 4           | 74              | 74.00    | 1.19                    |
| Bodies injured.....       | 10      | 6        | 4       | 15        | 13          | 586             | 65.11    | 11.91                   |
| Collar bone broken.....   | 1       | 1        | .....   | 1         | 1           | 45              | 45.00    | 1.19                    |
| Eyes injured.....         | 2       | .....    | 2       | .....     | .....       | 34              | 34.00    | 2.38                    |
| Face and arms burned..... | 1       | .....    | 1       | .....     | .....       | 45              | 45.00    | 1.19                    |
| Feet broken.....          | 4       | 2        | 2       | 5         | 7           | 301             | 75.25    | 4.76                    |
| Feet injured.....         | 8       | 5        | 3       | 7         | 13          | 440             | 55.00    | 9.53                    |
| Fingers broken.....       | 1       | 1        | .....   | 2         | 3           | 33              | 33.00    | 1.19                    |
| Fingers injured.....      | 1       | 1        | .....   | .....     | 1           | 63              | 63.00    | 1.19                    |
| Hands injured.....        | 7       | 3        | 4       | 14        | 10          | 321             | 45.86    | 8.33                    |
| Heads injured.....        | 4       | 3        | 1       | 8         | 11          | 243             | 81.00    | 4.76                    |
| Jaw broken.....           | 1       | 1        | .....   | 2         | 3           | 75              | 75.00    | 1.19                    |
| Legs broken.....          | 12      | 8        | 4       | 21        | 30          | 995             | 124.37   | 14.29                   |
| Legs injured.....         | 8       | 2        | 6       | 2         | 6           | 352             | 58.67    | 9.53                    |
| Pelvis bone broken.....   | 2       | .....    | 2       | .....     | .....       | 150             | 150.00   | 2.38                    |
| Ribs broken.....          | 3       | 2        | 1       | 8         | 7           | 171             | 57.00    | 3.57                    |
| Shoulder broken.....      | 1       | .....    | 1       | .....     | .....       | 200             | 200.00   | 1.19                    |
| Shoulder injured.....     | 1       | 1        | .....   | 6         | 7           | 30              | 30.00    | 1.19                    |
| Wrist broken.....         | 1       | .....    | 1       | .....     | .....       | 60              | 60.00    | 1.19                    |
| Total.....                | 84      | 48       | 36      | 136       | 169         | 5,198           | 70.24    | 100.00                  |

*Calhoun County—*

| Number.      | Name of operator.            | Postoffice address of the mines. | Output of mines in tons. |       |               |        |
|--------------|------------------------------|----------------------------------|--------------------------|-------|---------------|--------|
|              |                              |                                  | Mine run.                | Lump. | Other grades. | Total. |
| LOCAL MINES. |                              |                                  |                          |       |               |        |
| 1            | Calhoun Clay Product Co..... | Golden eagle...                  | 1,660 .....              | ..... | .....         | 1,660  |

Mines reported for 1911, 1.  
Mines in 1912, 1.

*Greene County—*

| Number.     | Name of operator.         | Postoffice address of the mines. | Output of mines in tons. |       |               |        |
|-------------|---------------------------|----------------------------------|--------------------------|-------|---------------|--------|
|             |                           |                                  | Mine run.                | Lump. | Other grades. | Total. |
| LOCAL MINE. |                           |                                  |                          |       |               |        |
| 1           | Kineaid and Mitchell..... | Greenfield .....                 | 200                      | 5,000 | 200           | 5,400  |

Mines reported for 1911, 1.  
Mines in 1912, 1.

*Seventh District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                        | Mules. |         |
| .....                             | 1,660           | .....                                  | 200                       | 6                         | 4                    | 10     | 1,660       | .....       |             |          | .....   |                                |        | 1       |

*Seventh District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                        | Mules. |         |
| .....                             | 5,400           | 200                                    | 200                       | 8                         | 3                    | 11     | 5,400       | .....       |             |          | .....   |                                |        | 1       |

*Jersey County—*

| Number.     | Name of operator.     | Postoffice address of the mines. | Output of mines in tons. |           |               |        |
|-------------|-----------------------|----------------------------------|--------------------------|-----------|---------------|--------|
|             |                       |                                  | Mine run.                | Lump.     | Other grades. | Total. |
| LOCAL MINE. |                       |                                  |                          |           |               |        |
| 1           | Cairns and Bott. .... | Brighton .....                   |                          | 800 ..... |               | 800    |

Mines reported for 1911, 1.  
Mines in 1912, 1.

*Macoupin County—*

| Number.             | Name of operator.                       | Postoffice address of the mines. | Output of mines in tons. |             |               |             |
|---------------------|---|----------------------------------|--------------------------|-------------|---------------|-------------|
|                     |   |                                  | Mine run.                | Lump.       | Other grades. | Total.      |
| SHIPPING MINES.     |   |                                  |                          |             |               |             |
| 1                   | Superior Coal Co., No. 3.....           | Gillespie.....                   |                          | 664, 111    | 173, 868      | 837, 979    |
| 2                   | Superior Coal Co., No. 2.....           | do.....                          | 632, 841                 |             | 158, 994      | 791, 835    |
| 3                   | Superior Coal Co., No. 1.....           | do.....                          |                          | 530, 440    | 143, 277      | 673, 717    |
| 4                   | Consolidated Coal Co., No. 14.....      | Staunton.....                    | 104, 977                 | 238, 104    | 191, 404      | 534, 485    |
| 5                   | Consolidated Coal Co., No. 15.....      | Mt. Olive.....                   | 34, 001                  | 254, 401    | 171, 714      | 460, 116    |
| 6                   | Royal Colliery Co., No. 1.....          | Viriden.....                     | 23, 722                  | 109, 032    | 230, 061      | 362, 815    |
| 7                   | Girard Collieries Co., No. 5.....       | Girard.....                      | 60, 627                  | 106, 082    | 96, 803       | 263, 512    |
| 8                   | Madison Coal Corporation, No. 5.....    | Mt. Olive.....                   | 168, 081                 | 53, 384     | 31, 420       | 252, 885    |
| 9                   | Vivian Collieries Co., Green Ridge..... | Greenridge.....                  | 36, 956                  | 68, 919     | 120, 625      | 226, 500    |
| 10                  | Glenridge Coal Co., No. 1.....          | Viriden.....                     | 68, 396                  | 70, 974     | 72, 726       | 212, 096    |
| 11                  | Consolidated Coal Co., No. 8.....       | Mt. Olive.....                   | 114, 447                 | 39, 303     | 13, 143       | 166, 893    |
| 12                  | Carlville Coal Co.....                  | Carlville.....                   | 8, 229                   | 41, 734     | 26, 976       | 76, 939     |
| 13                  | Ill. Central Fuel Co., No. 1.....       | Nilwood.....                     | 15, 425                  | 10, 285     | 5, 140        | 30, 850     |
| Total.....          |   |                                  | 1, 267, 702              | 2, 186, 769 | 1, 436, 151   | 4, 890, 622 |
| LOCAL MINES.        |   |                                  |                          |             |               |             |
| 1                   | Wm. Neil.....                           | Bunker Hill.....                 | 17, 474                  |             |               | 17, 474     |
| 2                   | Ed. A. Bauser.....                      | do.....                          | 804                      | 2, 113      | 1, 193        | 4, 110      |
| 3                   | John Sipora.....                        | Chesterfield.....                |                          | 800         | 4             | 804         |
| 4                   | Abbott T. Jarden.....                   | Bunker Hill.....                 |                          | 40          |               | 40          |
| Tbtal.....          |   |                                  | 18, 278                  | 2, 953      | 1, 197        | 22, 428     |
| Total—17 mines..... |   |                                  | 1, 285, 980              | 2, 189, 722 | 1, 437, 348   | 4, 913, 050 |

Mines reported for 1911, 17.  
Mines in 1912, 17.

*Seventh District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut of both. | Number of animals underground. |        |         |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. | Number. |
| .....                             | 800             | .....                                  | 200                       | 2                         | 1                    | 3      | 800         | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |

*Seventh District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut of both. | Number of animals underground. |        |         |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. | Number. |
| 821,678                           | 16,301          | 4,163                                  | 229                       | .....                     | 601                  | 601    | .....       | 837,979     | .....      | 4        | U. C.   | .....                          | 38     | 1       |
| 777,263                           | 14,572          | 4,000                                  | 228                       | .....                     | 553                  | 553    | .....       | 791,835     | 2          | 5        | do.   | .....                          | 29     | 2       |
| 654,268                           | 19,449          | 4,577                                  | 225                       | .....                     | 562                  | 562    | .....       | 673,717     | 2          | 6        | do.   | .....                          | 31     | 3       |
| 494,314                           | 40,171          | 3,472                                  | 199                       | .....                     | 500                  | 500    | .....       | 534,485     | 1          | 1        | do.   | .....                          | 29     | 4       |
| 418,048                           | 42,068          | 2,657                                  | 198                       | .....                     | 415                  | 415    | .....       | 460,116     | .....      | 7        | do.   | .....                          | 29     | 5       |
| 331,584                           | 31,231          | 6,010                                  | 186                       | 200                       | 180                  | 380    | .....       | 362,815     | 4          | 1        | do.   | .....                          | 26     | 6       |
| 251,599                           | 11,913          | 12,285                                 | 166                       | 260                       | 60                   | 320    | 263,512     | .....       | .....      | 4        | Solid.  | .....                          | 20     | 7       |
| 224,790                           | 28,095          | 1,268                                  | 189                       | .....                     | 299                  | 299    | .....       | 252,885     | .....      | 11       | U. C.   | .....                          | 19     | 8       |
| 220,672                           | 5,828           | 10,508                                 | 228                       | 190                       | 84                   | 274    | 219,288     | 7,212       | 1          | 7        | Both.   | .....                          | 15     | 9       |
| 192,946                           | 19,150          | 3,110                                  | 161                       | 158                       | 129                  | 287    | 7,224       | 204,872     | .....      | 1        | do.   | .....                          | 17     | 10      |
| 113,310                           | 53,583          | 854                                    | 182                       | .....                     | 209                  | 209    | .....       | 166,893     | .....      | 3        | U. C.   | .....                          | 12     | 11      |
| 52,977                            | 23,962          | 4,080                                  | 195                       | 79                        | 29                   | 108    | 76,939      | .....       | .....      | .....    | Solid.  | .....                          | 22     | 12      |
| 26,800                            | 4,050           | 1,550                                  | 61                        | 89                        | 53                   | 142    | 30,850      | .....       | .....      | .....    | do.   | .....                          | 13     | 13      |
| 4,580,249                         | 310,373         | 58,534                                 | 188                       | 976                       | 3,674                | 4,650  | 597,813     | 4,292,809   | 11         | 49       | .....   | .....                          | 300    | .....   |
| .....                             | .....           | .....                                  | .....                     | .....                     | .....                | .....  | .....       | .....       | .....      | .....    | .....   | .....                          | .....  | .....   |
| .....                             | 17,474          | 50                                     | 210                       | 10                        | 3                    | 13     | .....       | 17,474      | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 4,110           | 128                                    | 267                       | 5                         | 6                    | 11     | 4,110       | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 804             | .....                                  | 100                       | 4                         | 1                    | 5      | 804         | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 40              | 3                                      | 60                        | 1                         | 1                    | 2      | 40          | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 22,428          | 181                                    | 159                       | 20                        | 11                   | 31     | 4,954       | 17,474      | .....      | .....    | .....   | .....                          | .....  | .....   |
| 4,580,249                         | 332,801         | 58,715                                 | 181                       | 996                       | 3,685                | 4,681  | 602,767     | 4,310,281   | 11         | 49       | .....   | .....                          | 300    | .....   |

## Montgomery County—

| Number.             | Name of operator.                        | Postoffice address of the mines. | Output of mines in tons. |           |               |           |
|---------------------|--|----------------------------------|--------------------------|-----------|---------------|-----------|
|                     |  |                                  | Mine run.                | Lump.     | Other grades. | Total.    |
| SHIPPING MINES.     |  |                                  |                          |           |               |           |
| 1                   | Shoal Creek Coal Co., No. 1.....         | Panama.....                      | 2,541                    | 198,840   | 205,644       | 407,025   |
| 2                   | Peabody Coal Co., No. 14.....            | Witt.....                        | 125,666                  | 137,007   | 104,264       | 366,937   |
| 3                   | Montgomery Co. Coal Co., T. Springs..... | Hillsboro.....                   | 39,200                   | 130,000   | 160,022       | 329,222   |
| 4                   | Hillsboro Coal Co., Hillsboro.....       | do.....                          | 20,516                   | 109,454   | 163,649       | 293,619   |
| 5                   | Burnwell Coal Co., No. 1.....            | Witt.....                        | 92,165                   | 106,762   | 78,088        | 277,015   |
| 6                   | Kortkamp Coal Co., Kortkamp.....         | Hillsboro.....                   | 220,256                  | 220,256   | 2,000         | 222,256   |
| 7                   | Clover Leaf M. Co., No. 2.....           | Coffeen.....                     | 2,156                    | 68,908    | 63,183        | 134,247   |
| 8                   | Peabody Coal Co., No. 10.....            | Nokomis.....                     | 89,587                   | 16,204    | 5,689         | 111,480   |
| 9                   | Farmersville C. M. Co.....               | Farmersville.....                | 8,543                    | 48,330    | 37,617        | 94,490    |
| 10                  | Litchfield Coal Co., No. 7.....          | Litchfield.....                  | 160                      | 21,690    | 22,200        | 44,050    |
| Total—10 mines..... |  |                                  | 380,534                  | 1,057,451 | 842,356       | 2,280,341 |

Mines reported for 1911, 10.

Mines in 1912, 10.

## Shipping mines—recapitulation by

| Counties.        | Number of mines. | Productions of different grades in tons. |           |         |         |         |         | Disposition of out-put—tons. |                              |                 |
|------------------|------------------|--|-----------|---------|---------|---------|---------|------------------------------|------------------------------|-----------------|
|                  |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.    | Slack.  | Total.                       | Loaded on cars for shipment. | Other purposes. |
| Macoupin . . . . | 13               | 1,267,702                                | 2,186,769 | 174,026 | 50,572  | 332,808 | 878,745 | 4,890,622                    | 4,580,249                    | 310,373         |
| Montgomery ..    | 10               | 380,534                                  | 1,057,451 | 288,308 | 66,762  | 474,208 | 13,078  | 2,280,341                    | 2,179,726                    | 100,615         |
| Total . . . .    | 23               | 1,648,236                                | 3,244,220 | 462,334 | 117,334 | 807,016 | 891,823 | 7,170,963                    | 6,759,975                    | 410,988         |

*Seventh District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                         | Mules. |         |
| 388,612                           | 18,413          | 7,231                                  | 222                       | .....                     | 426                  | 426    | .....       | 407,025     | 3          | 14       | U. C. ....                                    | .....                           | 22     | 1       |
| 359,006                           | 7,931           | 3,345                                  | 201                       | 300                       | 90                   | 390    | .....       | .....       | 1          | 4        | do. ....                                      | 10                              | 15     | 2       |
| 319,222                           | 10,000          | 2,750                                  | 175                       | .....                     | 438                  | 438    | .....       | 329,222     | 3          | 2        | do. ....                                      | .....                           | 11     | 3       |
| 274,129                           | 19,490          | 2,442                                  | 228                       | 126                       | 92                   | 218    | .....       | 293,619     | 3          | 5        | do. ....                                      | .....                           | 18     | 4       |
| 269,360                           | 7,655           | 2,170                                  | 145                       | 245                       | 88                   | 333    | 277,015     | .....       | .....      | .....    | Solid. ....                                   | 10                              | 30     | 5       |
| 219,492                           | 2,764           | 1,096                                  | 167                       | .....                     | 280                  | 280    | .....       | 222,256     | .....      | .....    | U. C. ....                                    | .....                           | 29     | 6       |
| 124,462                           | 9,785           | 6,712                                  | 171                       | 148                       | 67                   | 215    | 126,124     | 8,123       | 1          | 2        | Both. ....                                    | .....                           | 11     | 7       |
| 107,152                           | 4,328           | 831                                    | 179                       | 45                        | 92                   | 137    | 60,039      | 51,441      | 1          | 8        | U. C. ....                                    | .....                           | 10     | 8       |
| 87,644                            | 6,846           | 4,420                                  | 98                        | 114                       | 46                   | 160    | 94,490      | .....       | .....      | .....    | Solid. ....                                   | .....                           | 9      | 9       |
| 30,647                            | 13,403          | 1,828                                  | 180                       | 50                        | 25                   | 75     | 44,050      | .....       | .....      | .....    | do. ....                                      | .....                           | 7      | 10      |
| 2,179,726                         | 100,615         | 32,825                                 | 177                       | 1,028                     | 1,644                | 2,672  | 968,655     | 1,311,686   | 12         | 35       | .....   | 20                              | 162    |         |

*counties—Seventh District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |       |         |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|-------|---------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |       |         | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Boys. | Others. |                   |        |             |             |                  |                |                    |
| 58,534                                 | 188                       | 976          | 3,210 | 119     | 345               | 4,650  | 597,513     | 4,292,809   | 371,301          | 4,292,821      | 226,500            |
| 32,825                                 | 177                       | 1,028        | 1,388 | 30      | 226               | 2,672  | 968,655     | 1,311,686   | 415,555          | 1,730,539      | 134,247            |
| 91,359                                 | 183                       | 2,004        | 4,598 | 149     | 571               | 7,322  | 1,566,468   | 5,604,495   | 786,856          | 6,023,360      | 360,747            |

*Local mines—recapitulation by*

| Counties.       | Number of mines. | Productions of different grades in tons. |           |         |         |         |         | Total.    | Disposition of out-put—tons. |                 |
|-----------------|------------------|--|-----------|---------|---------|---------|---------|-----------|------------------------------|-----------------|
|                 |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Calhoun.....    | 1                | 1,660                                    | .....     | .....   | .....   | .....   | .....   | 1,660     | .....                        | 1,660           |
| Greene.....     | 1                | 200                                      | 5,000     | .....   | .....   | .....   | 200     | 5,400     | .....                        | 5,400           |
| Jersey.....     | 1                | .....                                    | 800       | .....   | .....   | .....   | .....   | 800       | .....                        | 800             |
| Macoupin.....   | 4                | 18,278                                   | 2,953     | .....   | .....   | .....   | 1,197   | 22,428    | .....                        | 22,428          |
| Total.....      | 7                | 20,138                                   | 8,753     | .....   | .....   | .....   | 1,397   | 30,288    | .....                        | 30,288          |
| The District... | 30               | 1,668,374                                | 3,252,973 | 462,334 | 117,334 | 807,016 | 893,220 | 7,201,251 | 6,759,975                    | 441,276         |

Whole number of mines reported for 1911, 30.

Whole number of mines reported for 1912, 30.

*All mines—recapitulation by*

| Counties.     | Number of mines. | Productions of different grades in tons. |           |         |         |         |         | Total.    | Disposition of out-put—tons. |                 |
|---------------|------------------|--|-----------|---------|---------|---------|---------|-----------|------------------------------|-----------------|
|               |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Calhoun.....  | 1                | 1,660                                    | .....     | .....   | .....   | .....   | .....   | 1,660     | .....                        | 1,660           |
| Greene.....   | 1                | 200                                      | 5,000     | .....   | .....   | .....   | 200     | 5,400     | .....                        | 5,400           |
| Jersey.....   | 1                | .....                                    | 800       | .....   | .....   | .....   | .....   | 800       | .....                        | 800             |
| Macoupin..... | 17               | 1,285,980                                | 2,189,722 | 174,026 | 50,572  | 332,808 | 879,942 | 4,913,050 | 4,580,249                    | 332,801         |
| Montgomery..  | 10               | 380,534                                  | 1,057,451 | 288,308 | 66,762  | 474,208 | 13,078  | 2,280,341 | 2,179,726                    | 109,615         |
| Total.....    | 30               | 1,668,374                                | 3,252,973 | 462,334 | 117,334 | 807,016 | 893,220 | 7,201,251 | 6,759,975                    | 441,276         |



*counties—Seventh District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| .....                                  | 200                       | 6            | .....   | ..... | 4                 | 10     | 1,660       | .....       | .....            | .....          | .....              |
| 200                                    | 200                       | 8            | 1       | ..... | 2                 | 11     | 5,400       | .....       | .....            | .....          | .....              |
| .....                                  | 200                       | 2            | .....   | ..... | 1                 | 3      | 800         | .....       | .....            | .....          | .....              |
| 181                                    | 159                       | 20           | .....   | ..... | 11                | 31     | 4,954       | 17,474      | .....            | .....          | .....              |
| 381                                    | 177                       | 36           | 1       | ..... | 18                | 55     | 12,814      | 17,474      | .....            | .....          | .....              |
| 91,740                                 | 148                       | 2,040        | 4,599   | 149   | 589               | 7,377  | 1,579,282   | 5,621,969   | .....            | .....          | .....              |

*counties—Seventh District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boy.  |                   |        |             |             |                  |                |                    |
| .....                                  | 200                       | 6            | .....   | ..... | 4                 | 10     | 1,660       | .....       | .....            | .....          | .....              |
| 200                                    | 200                       | 8            | 1       | ..... | 2                 | 11     | 5,400       | .....       | .....            | .....          | .....              |
| .....                                  | 200                       | 2            | .....   | ..... | 1                 | 3      | 800         | .....       | .....            | .....          | .....              |
| 58,715                                 | 181                       | 996          | 3,210   | 119   | 356               | 4,681  | 602,767     | 4,310,283   | .....            | .....          | .....              |
| 32,825                                 | 177                       | 1,028        | 1,388   | 30    | 226               | 2,672  | 968,655     | 1,311,686   | .....            | .....          | .....              |
| 91,740                                 | 148                       | 2,040        | 4,599   | 149   | 589               | 7,377  | 1,579,282   | 5,621,969   | .....            | .....          | .....              |

## EIGHTH INSPECTION DISTRICT—1912.

### ANNUAL REPORT.

Counties—Bond, Clinton, Madison, Marion.

W. L. MORGAN, *Inspector*, E. St. Louis.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

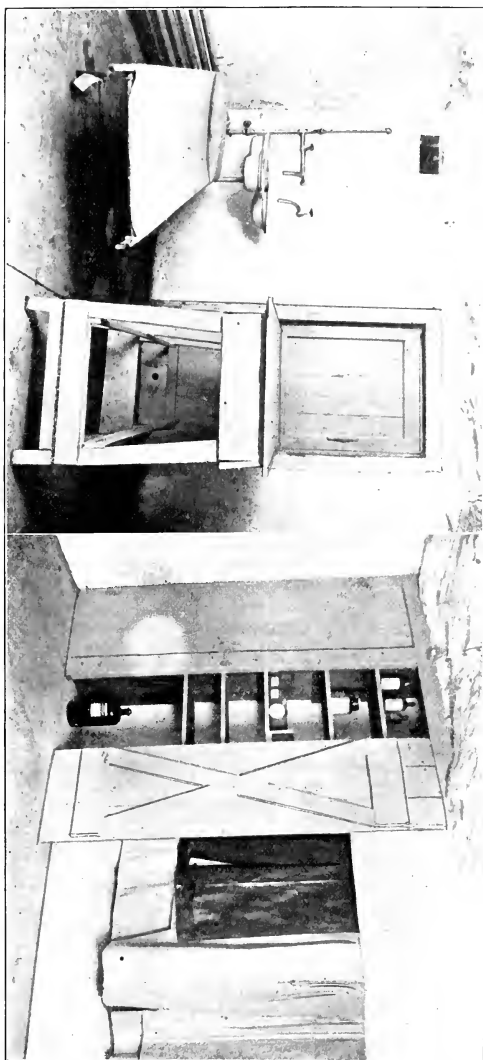
SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Bond, Clinton, Madison and Marion.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|   |           |
|---|-----------|
| Number of counties producing coal.....                | 4         |
| Number of shipping mines.....                         | 29        |
| Number of local mines.....                            | 11        |
| Number of new or reopened mines.....                  | 3         |
| Number of closed or abandoned mines.....              | 4         |
| Number of miners.....                                 | 2,452     |
| Others underground, men.....                          | 4,141     |
| Boys underground.....                                 | 142       |
| Boys above ground.....                                | 7         |
| Others above ground.....                              | 673       |
| Total number of employees.....                        | 7,415     |
| Total tons of coal produced.....                      | 5,854,645 |
| Days of active operation, all mines.....              | 172       |
| Kegs of powder used for blasting coal.....            | 112,455   |
| Tons of coal shipped.....                             | 5,280,799 |
| Tons supplied to locomotives.....                     | 210,959   |
| Tons sold to local trade.....                         | 155,437   |
| Tons consumed and wasted at the mines.....            | 207,450   |
| Number of fatal accidents.....                        | 20        |
| Number of non-fatal accidents.....                    | 108       |
| Number of employees to each fatal accident.....       | 371       |
| Number of employees to each non-fatal accident.....   | 69        |
| Tons of coal produced to each fatal accident.....     | 292,732   |
| Tons of coal produced to each non-fatal accident..... | 54,210    |
| Ratio of fatal accidents per 1,000 employees.....     | 2.70      |

The following table shows the output by counties for the years ended June 30, 1911 and 1912, with the increase or decrease:

| Counties.         | Total output—tons. |           | Increase. | Decrease. |
|-------------------|--------------------|-----------|-----------|-----------|
|                   | 1911.              | 1912.     |           |           |
| Bond.....         | 144,824            | 183,180   | 38,356    |           |
| Clinton.....      | 1,000,536          | 1,012,982 | 12,446    |           |
| Madison.....      | 3,766,002          | 3,454,536 |           | 311,466   |
| Marion.....       | 1,134,377          | 1,203,947 | 69,570    |           |
| Total.....        | 6,045,739          | 5,854,645 | 120,372   | 311,466   |
| Net decrease..... |                    |           |           | 191,094   |



Underground Hospital at Donk Bros. No. 1 Mine.

## NEW AND ABANDONED MINES.

Three mines, in local trade only, have been opened and four mines abandoned or not operated during the year.

## CHANGE IN NAMES.

The George Luman mine, near Moro, Madison County, has been sold to George Kabel, who is operating it under the name of Kabel mine.

The Klondyke mine, near Prairietown, Madison County, has been purchased by Hardin and Stiegmeier. The name of the mine remains unchanged.

The St. Louis and Illinois Coal Company's mine at Edwardsville is now being operated by W. S. Walker and known as the Henrietta mine.

## MINE FIRES.

On the night of February 5th, the engine house, generator room, and boiler room were burned down at the mine of the North Breese Coal and Mining Company, Breese, Clinton County. At the present time it is completely repaired. The wooden flooring of the engine house, except about the engines, is replaced by granitoid.

I am pleased to report the erection and putting in use of an underground hospital at the Donk Bros. Coal and Coke Company's No. 1 mine. It is built of concrete throughout, is 7 feet high by 13x14 feet. It is steam-heated and has hot and cold water. The temperature is kept at 90°. It is furnished with an operating table, the first aid appliances, with necessary blankets, kept in cupboard conveniently arranged, and is equipped with electric lights. The two stretchers are also kept here. In the two cases in which it has been tested it has fully met the expectations of its promoters. I believe this is the first underground hospital in the State. Mr. Wilson and the Donk Bros. Coal and Coke Company certainly deserve great credit for being the forerunners in improving mining conditions in this particular regard.

## IMPROVEMENTS.

Donk Bros. Coal and Coke Company has spent about \$15,000.00 in improving the fifth east entry of the No. 2 mine and have installed a 1,500 H. P. Cochran water heater.

At the No. 3 mine a 5 foot Stine Booster fan, operated by electricity, has been installed and is doing good work. Before this fan was put in the air was very poor.

The City Coal Company of Edwardsville, has made a decided improvement in the main air course of its mine, which should greatly improve the ventilation. The company has retimbered the escape shaft, and partly retimbered the hoisting shaft, and repaired the boilers. This mine was a year ago considered in poor condition, but is now operated by Herzogg-Gears & Co., and it must be said to their credit that they have improved the condition of the mine to no small degree.

Lumaghi Coal Company at the No. 2 mine, at Collinsville, is enlarging the main air course to a minimum of at least 50 square feet, in order to increase the ventilation. Six electric coal mining machines, one Sullivan continuous cutter and five Jeffreys' continuous cutters, have been put in.

Madison Coal Corporation has made extensive improvements at No. 2 and No. 4 mines. At No. 4 mine a sump lined throughout with concrete, to contain three months' water, has been made, air courses enlarged, haulage roads improved and refuge places made larger.

At the No. 2 mine a sump to contain three months water, lined throughout with concrete, has been made, air courses enlarged, haulage roads improved, and installed a Jeffreys' Booster fan, 3 feet 6 inches by 2 feet 3 inches double inlet, with noiseless chain drive operated by a 50 horse power motor. The

fan is guaranteed to produce 65,000 cubic feet of air against a 2½ inch water gauge. The installation of this fan has made a fine improvement in the ventilation of that part of the mine.

Seven thousand dollars has been spent in putting up new buildings and a retaining wall.

This company has furnished for No. 2 and No. 4 mine, a complete set of mine rescue apparatus for each mine, including helmets, oxygen tanks, pulmotors, etc. It is to be hoped that other companies will follow this example, so that in the event they should be wanted, when minutes will be precious, they will be ready for use, and save the time of waiting for the mine rescue party with their equipment from the State rescue stations.

There is a mine rescue and first aid team, composed of the employees of the Madison Coal Corporation, at Glen Carbon. It is fine to see this spirit of coöperation among the operators and employees. The spirit which this company has shown in bringing mines No. 2 and No. 4 to a first-class condition is commendable.

The Breese-Trenton Mining Company, at the East mine, has put in a complete new head gearing and a water heater for the boilers.

At the Buxton mine, fine and extensive improvements underground have been made. The bottom is in fine shape. The low timbers taken out, the height increased about 3 feet, securing the roof by steel eye beams, resting on steel eye props, these in turn resting on a concrete foundation. Haulage roads on both sides have been cleaned. The twenty pound rails of the main haulage roads on one side of the shaft have been replaced by thirty pound rails, preparatory to putting in a motor.

The Consolidated Coal Company has put in at the West mine, Breese, a new stairway in the escapement shaft.

Marion County Coal Company has erected a new brick smoke stack with base 22 feet, height 151 feet, and top 6 feet; two new boilers, O'Brien make, 72 inches by 18 feet has been installed.

#### TEMPORARY SUSPENSION OF MINES.

Lumaghi Coal Company has closed No. 3 mine at Collinsville, for the purpose of making repairs, such as erecting a new fan which is capable of producing twice the quantity of air produced by the present one; cleaning out air courses, and making preparations to have the present underground workings extended through the old and abandoned workings of a mine known as the Heinz Bluff mine. A new boiler has also been installed.

The Mt. Olive & Staunton Coal Company temporarily closed mine No. 1, for the purpose of improving and strengthening the pit tower, retimbering a part of the hoisting shaft, repairing the dynamo, putting in a new track scale, and the building of a new smoke stack.

#### FATAL ACCIDENTS.

July 11, 1911, Ernest Cole, driver, aged 26 years, married, employed at the Buxton mine of the Breese-Trenton Mining Company, Breese, Clinton County, was killed by pit cars. He leaves a widow and one child.

July 20, 1911, Frank Campbell, laborer, aged 56 years, married, was caught between the cage and timber and killed. Deceased was employed in the Northern Coal and Supply Co.'s mine, Sorento, Bond County. He leaves a widow and three children.

August 28, 1911, Steve Eskochin, driver, aged 18 years, single, was killed by pit cars in the Mt. Olive and Staunton Coal Company's mine No. 2, Staunton, Madison County.

September 14, 1911, Bert Rico, machine helper, aged 28 years, single, employed at New Staunton Coal Company's mine, Livingston, Madison County, was killed by falling coal.

September 20, 1911, John Mygatt, miner, aged 48 years, married, was killed by falling coal in No. 9 mine of Southern Coal and Mining Co., New Baden, Clinton County. He leaves a widow and two children.

October 11, 1911, John Markhefka, miner, aged 41 years, married, was killed in the New Staunton Coal Company's mine, Livingston, Madison County, by a fall of slate. He leaves a widow and one child.

October 27, 1911, A. V. Strong, trip rider, aged 31 years, married, employed at Donk Bros. Coal and Coke Co.'s, No. 3 mine, Troy, Madison County, was killed by pit cars. He leaves a widow and one child.

November 6, 1911, Bartolets Matench, miner, aged 49 years, married, was killed by falling slate in the New Staunton Coal Co.'s mine, Livingston, Madison County. He leaves a widow and one child.

November 17, 1911, Charles Zamelus, machine runner, aged 45 years, married, employed by New Staunton Coal Co., Livingston, Madison County, was killed by falling slate. He leaves a widow and three children.

December 27, 1911, John Gusansinski, miner, aged 47 years, married, was killed by falling coal in the Southern Coal and Mining Co.'s No. 9 mine, New Baden, Clinton County. He leaves a widow and three children.

January 6, 1912, James Madalone, miner, aged 27 years, married, was killed in the mine of the DeCamp Coal Mining Co., Staunton, Madison Co., by a fall of rock. He leaves a widow and one child.

January 29, 1912, James Haning, miner, aged 37 years, married, employed in the New Staunton Coal Co.'s mine, Livingston, Madison County, was killed by falling slate. He leaves a widow and three children.

February 6, 1912, Barney Cavallo, miner, aged 37 years, single, was killed by falling slate in Lumaghi Coal Co.'s mine No. 2, Collinsville, Madison County.

March 13, 1912, Frank Dearing, machine helper, aged 36 years, married, was killed by falling coal in the Mt. Olive and Staunton Coal Co.'s No. 2 mine, Staunton, Madison County. He leaves a widow and five children.

March 13, 1912, Henry Harnering, miner, aged 63 years, married, was killed in the Home Trade Coal Co.'s mine, Edwardsville, Madison County, by falling clod. He leaves a widow and seven children.

March 17, 1912, Philip Simburger, miner, aged 26 years, married, was killed by a powder explosion in the mine of the DeCamp Coal Co., Staunton, Madison County. He leaves a widow and three children.

March 26, 1912, Louis Albie, laborer, aged 70 years, married, employed in the Lumaghi Coal Co.'s No. 2 mine, Collinsville, Madison County, was killed by a fall of slate. He leaves a widow and four children.

March 26, 1912, Douglas Umpleman, miner, aged 48 years, married, was killed by falling clod in the DeCamp Coal Mining Co.'s mine, Staunton, Madison County. He leaves a widow and one child.

March 28, 1912, Samuel Keene, machine runner, aged 28 years, single, was killed in the Lumaghi Coal Co.'s mine, Collinsville, Madison County, by falling coal.

June 26, 1912, John Patretto, trip rider, aged 33 years, married, was killed by pit cars in Donk Bros. Coal and Coke Co.'s mine, Collinsville, Madison County. He leaves a widow and two children.

Respectfully submitted,

W. L. MORGAN,

*State Inspector of Mines, Eighth District, R. R. 2, E. St. Louis, Ill.*

*Fatal casualties—Eighth District—June 30, 1912.*

| Date.    | Name.                  | Age. | Occupation.         | Residence.        | Married. | Single. | Widow. | Children. | Dependents. | Cause of death.       |
|----------|------------------------|------|---------------------|-------------------|----------|---------|--------|-----------|-------------|-----------------------|
| 1911.    |                        |      |                     |                   |          |         |        |           |             |                       |
| July 11  | Ernest Cole.....       | 26   | Driver.....         | Carlyle.....      | 1        | 1       | 1      | 2         |             | Pit car.....          |
| 20       | Frank Campbell.....    | 56   | Laborer.....        | Sorento.....      | 1        | 1       | 3      | 4         |             | Cage.....             |
| Aug. 28  | Steve Eskochin.....    | 18   | Driver.....         | Williamson.....   | 1        | 1       |        |           |             | Pit car.....          |
| Sept. 14 | Bert Rico.....         | 28   | Machine helper..... | Livingston.....   | 1        | 1       |        |           |             | Falling coal.....     |
| 20       | John Mygatt.....       | 48   | Miner.....          | New Baden.....    | 1        | 1       | 2      | 3         |             | do.....               |
| Oct. 11  | John Marhefka.....     | 41   | do.....             | Williamson.....   | 1        | 1       | 1      | 2         |             | Falling slate.....    |
| 27       | A. V. Strong.....      | 31   | Trip rider.....     | Troy.....         | 1        | 1       | 1      | 2         |             | Pit car.....          |
| Nov. 6   | Bartolado Malench..... | 49   | Miner.....          | Livingston.....   | 1        | 1       | 1      | 2         |             | Falling slate.....    |
| 17       | Chas. Zameletes.....   | 45   | Machine runner..... | do.....           | 1        | 1       | 3      | 4         |             | do.....               |
| Dec. 27  | John Guarnsinski.....  | 47   | Miner.....          | New Baden.....    | 1        | 1       | 3      | 4         |             | Falling coal.....     |
| Jan. 6   | James Madalone.....    | 27   | do.....             | De Camp.....      | 1        | 1       | 1      | 2         |             | Falling rock.....     |
| 29       | Jas. Haning.....       | 37   | do.....             | Staunton.....     | 1        | 1       | 3      | 4         |             | Falling slate.....    |
| Feb. 6   | Barney Cavallo.....    | 37   | do.....             | Collinsville..... | 1        | 1       |        |           |             | do.....               |
| Mar. 13  | Frank Dearing.....     | 36   | Machine helper..... | Staunton.....     | 1        | 1       | 5      | 6         |             | Falling coal.....     |
| 13       | Henry Harnnring.....   | 63   | Miner.....          | Edwardsville..... | 1        | 1       | 7      | 1         |             | Falling clod.....     |
| 17       | Philip Simburger.....  | 26   | do.....             | Staunton.....     | 1        | 1       | 3      | 4         |             | Powder explosion..... |
| 26       | Louis Albie.....       | 70   | Laborer.....        | Collinsville..... | 1        | 1       | 4      | 1         |             | Falling slate.....    |
| 26       | Douglas Uempleman..... | 48   | Miner.....          | Staunton.....     | 1        | 1       | 1      | 2         |             | Falling clod.....     |
| 28       | Samuel Keene.....      | 28   | Machine runner..... | Collinsville..... | 1        | 1       |        |           |             | Falling coal.....     |
| June 26  | John Patrette.....     | 33   | Trip rider.....     | do.....           | 1        | 1       | 2      |           |             | Pit car.....          |
|          | Total.....             |      |                     |                   | 15       | 5       | 15     | 41        | 45          |                       |

*Recapitulation of fatal casualties—Eighth District—1912.*

| Residence.        | No. | Occupation.          | No. | Cause of accident.    | No. | Colliery.                    | No. |
|-------------------|-----|----------------------|-----|-----------------------|-----|------------------------------|-----|
| Carlyle.....      | 1   | Drivers.....         | 2   | Cage.....             | 1   | Breese-Trenton.....          | 1   |
| Collinsville..... | 4   | Laborers.....        | 2   | Falling clod.....     | 2   | DeCamp.....                  | 3   |
| DeCamp.....       | 1   | Machine helpers..... | 2   | Falling coal.....     | 5   | Donk Bros.....               | 2   |
| Edwardsville..... | 1   | Machine runner.....  | 2   | Falling rock.....     | 1   | Edwardsville Home Trade..... | 1   |
| Livingston.....   | 3   | Miners.....          | 10  | Falling slate.....    | 6   | Lumaghi.....                 | 3   |
| New Baden.....    | 2   | Trip riders.....     | 2   | Pit cars.....         | 4   | Mt. Olive & Staunton.....    | 2   |
| Sorento.....      | 1   |                      |     | Powder explosion..... | 1   | New Staunton.....            | 5   |
| Staunton.....     | 4   |                      |     |                       |     | Northern Coal & Supply.....  | 1   |
| Troy.....         | 1   |                      |     |                       |     | Southern.....                | 2   |
| Williamson.....   | 2   |                      |     |                       |     |                              |     |
| Total.....        | 20  |                      | 20  |                       | 20  |                              | 20  |

*Non-fatal casualties—Eighth District—June 30, 1912.*

| Date. | Name.                     | Age.    | Residence.        | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|-------|---------------------------|---------|-------------------|----------|---------|-----------|-------------|--|-----------------|
| 1911. |                           |         |                   |          |         |           |             |  |                 |
| July  | 3 Richard Davies.....     | 26      | Glen Carbon.....  | 1        |         |           |             | Body injured, pit car.....                 | 41              |
|       | 11 George Nowokitius..... | 40      | Collinsville..... | 1        |         |           |             | Hand injured, flying plug.....             | 47              |
|       | 15 Oscar Rother.....      | 16      | Troy.....         | 1        |         |           |             | Toe injured, pit car.....                  | 30              |
|       | 17 P. Grannon.....        | 25      | do.....           | 1        |         |           |             | Back broken, falling slate.....            | *               |
|       | 19 Joe Banbonx.....       | 28      | New Baden.....    | 1        |         |           |             | Collar bone broken, pit car.....           | 38              |
|       | 22 M. B. Hay.....         | 25      | Troy.....         | 1        |         |           |             | Body injured, pit car.....                 | 60              |
|       | 25 Geo. Giles.....        | 28      | Collinsville..... | 1        |         |           |             | Pelvis bone broken, pit car.....           | *               |
|       | 26 Andy Frankfort.....    | 47      | Worden.....       | 1        | 4       | 4         |             | Leg broken, falling slate.....             | 38              |
|       | 27 Dave Llewelyn.....     | 47      | Collinsville..... | 1        | 2       | 3         |             | Arm injured, falling slate.....            | 60              |
| Aug.  | 27 Mike Polinsky.....     | 19      | Livingston.....   | 1        |         |           |             | Arm broken, pit cars.....                  | 43              |
|       | 2 Jas Mazzano.....        | 35      | Maryville.....    | 1        |         |           |             | Ankle injured, falling coal.....           | 49              |
|       | 10 Wm. Andrika.....       | 32      | Glen Carbon.....  | 1        | 2       | 3         |             | Eye injured, flying coal.....              | 66              |
|       | 11 V. Brindle.....        | 16      | Troy.....         | 1        |         |           |             | Toe injured, pit car.....                  | 30              |
|       | 11 Louis Perman.....      | 24      | Livingston.....   | 1        |         |           |             | Leg broken, pit car.....                   | 120             |
|       | 12 Richard Wieseman.....  | 24      | Collinsville..... | 1        |         |           |             | Foot injured, falling slate.....           | 37              |
|       | 14 Hy Kleber.....         | 48      | Breese.....       | 1        | 3       | 3         |             | Leg injured, flying coal.....              | 30              |
|       | 16 John Bozards.....      | 36      | Collinsville..... | 1        | 5       | 6         |             | Body injured, motor.....                   | 60              |
|       | 19 S. W. Voelker.....     | 55      | Troy.....         | 1        | 2       | 3         |             | Hand injured, coal falling down shaft..... | 60              |
|       | 24 Joe Polka.....         | 16      | Staunton.....     | 1        |         |           |             | Leg injured, fell down.....                | 55              |
|       | 28 Walter Witte.....      | 25      | Collinsville..... | 1        | 2       | 3         |             | Finger injured, railroad car.....          | 53              |
|       | 22 Addison Clanton.....   | 20      | Pocahontas.....   | 1        |         |           |             | Leg injured, pit car.....                  | 40              |
|       | 31 J. Bonaski.....        | 60      | Collinsville..... | 1        | 3       | 1         |             | Back injured, falling slate.....           | 47              |
| Sept. | 2 Tom Miller.....         | 30      | do.....           | 1        |         |           |             | Foot injured, switch.....                  | 160             |
|       | 5 Dan Turnentine.....     | 40      | do.....           | 1        | 1       | 2         |             | Arm broken, coal fell down shaft.....      | 55              |
|       | 7 Tom Moglich.....        | 31      | Livingston.....   | 1        | 1       | 2         |             | Leg broken, falling coal.....              | 180             |
|       | 7 Jas. McGuire.....       | 36      | Breese.....       | 1        |         |           |             | Collar bone broken, pit cars.....          | 40              |
|       | 9 Geo. Poelker.....       | do..... | do.....           | 1        |         |           |             | Collar bone broken, falling box.....       | 90              |
|       | 19 Frank Mlekus.....      | 32      | Livingston.....   | 1        |         |           |             | Arm injured, falling slate.....            | 43              |
|       | 19 Harry Otto.....        | 21      | Collinsville..... | 1        |         |           |             | Back injured, falling clod.....            | 35              |
|       | 22 V. Bartolli.....       | 35      | Troy.....         | 1        |         |           |             | Collar bone broken, pit car.....           | 80              |
| Oct.  | 6 Grover Bird.....        | 23      | Staunton.....     | 1        |         |           |             | Finger injured, pit car.....               | 41              |
|       | 7 Chas. Heck.....         | 61      | Glen Carbon.....  | 1        | 5       | 3         |             | Fingers cut off, falling slate.....        | 50              |
|       | 19 John Spok.....         | 17      | Staunton.....     | 1        |         |           |             | Ankle injured, fell down.....              | 32              |
|       | 19 Nick Yost.....         | 48      | Glen Carbon.....  | 1        | 2       | 3         |             | Fingers injured, pick.....                 | 49              |
|       | 21 Douglas Phillips.....  | 38      | Odin.....         | 1        | 3       | 4         |             | Eyes destroyed, powder explosion.....      | *               |
|       | 26 Chas. Gregory.....     | 20      | Centralia.....    | 1        |         |           |             | Foot cut off, pit car.....                 | 150             |
|       | 26 A. Menillo.....        | 40      | Troy.....         | 1        |         |           |             | Ribs broken, falling slate.....            | 90              |
| Nov.  | 30 B. Chomossi.....       | 36      | Collinsville..... | 1        | 4       | 5         |             | Finger injured, falling coal.....          | 45              |
|       | 9 Wm. Bour.....           | 38      | Troy.....         | 1        |         |           |             | Body injured, falling slate.....           | 60              |
|       | 14 Chas. Morgands.....    | 33      | Collinsville..... | 1        |         |           |             | Foot injured, falling coal.....            | 43              |
|       | 20 Pet Goldich.....       | 20      | Livingston.....   | 1        |         |           |             | Finger injured, coal and prop.....         | 78              |
|       | 28 John Amerson.....      | 28      | Glen Carbon.....  | 1        |         |           |             | Body injured, motor.....                   | 173             |
| Dec.  | 2 John Wilfing.....       | 40      | Staunton.....     | 1        |         |           |             | Finger cut off, machine truck.....         | 32              |
|       | 2 Paul Villane.....       | 41      | Livingston.....   | 1        |         |           |             | Finger injured, prop and pick.....         | 45              |
|       | 8 E. Church.....          | 32      | Centralia.....    | 1        |         |           |             | Leg cut off, pit cars.....                 | *               |
|       | 8 Aug. Carvilet.....      | 47      | Collinsville..... | 1        | 10      | 11        |             | Ribs broken, falling slate.....            | 70              |
|       | 9 Wm. Laskie.....         | 47      | Glen Carbon.....  | 1        | 4       | 5         |             | Leg injured, falling coal.....             | 33              |
|       | 9 Fred Petton.....        | 21      | Breese.....       | 1        | 1       |           |             | Back injured, pit cars.....                | 173             |
|       | 13 Ed Wild.....           | 30      | Staunton.....     | 1        | 1       | 2         |             | Leg broken, falling coal.....              | 209             |
|       | 15 Frank Kunssidis.....   | 21      | Livingston.....   | 1        |         |           |             | Leg injured, pit car.....                  | 76              |
|       | 16 Joe Stankus.....       | 24      | Collinsville..... | 1        |         |           |             | Ankle injured, pit car.....                | 30              |
|       | 16 Clarence Prather.....  | 31      | Centralia.....    | 1        | 3       | 4         |             | Body burned, gas explosion.....            | 90              |
|       | 22 A. Fitch.....          | 43      | Collinsville..... | 1        | 2       | 1         |             | Body injured, pit car.....                 | 44              |
| 1912. |                           |         |                   |          |         |           |             |  |                 |
| Jan.  | 4 August Ittig.....       | 48      | Donkville.....    | 1        | 7       | 8         |             | Body injured, engine and car.....          | 53              |
|       | 8 Ed Isenburg.....        | 18      | Troy.....         | 1        |         |           |             | Leg injured, crossbar.....                 | 30              |
|       | 9 Her Albrich.....        | 35      | Livingston.....   | 1        |         |           |             | Rib broken, falling rock.....              | 45              |
|       | 10 Glen Duncan.....       | 18      | Sandoval.....     | 1        |         |           |             | Body injured, kicked by mule.....          | 30              |
|       | 12 Stanley Zannitti.....  | 20      | Williamson.....   | 1        |         |           |             | Leg broken, pit car.....                   | 146             |
|       | 16 Angelo Fazol.....      | 34      | DeCamp.....       | 1        |         |           |             | Hand injured, falling rock.....            | 60              |
|       | 17 Ed Prah.....           | 38      | Odin.....         | 1        | 3       | 4         |             | Finger cut off, machine.....               | 60              |
|       | 17 Peter Hellenhol.....   | 33      | Staunton.....     | 1        | 3       | 4         |             | Finger injured, falling coal.....          | 43              |
|       | 18 Louis Albie.....       | 70      | Collinsville..... | 1        | 5       | 1         |             | Head injured, falling slate.....           | 32              |
|       | 19 Joe Marcus.....        | 28      | Beckemeyer.....   | 1        |         |           |             | Arm broken, pit car.....                   | 49              |
|       | 22 George Koehler.....    | 42      | do.....           | 1        | 6       | 7         |             | Leg broken, falling coal.....              | 90              |
|       | 22 Hy DeBras.....         | 60      | Troy.....         | 1        |         |           |             | Foot broken, falling slate.....            | 36              |



*Non-fatal casualties—Eighth District—Concluded.*

| Date. | Name.                    | Age. | Residence.        | Married.<br>Single. | Children. | Dependents. | Character<br>of injury and cause of<br>accident. | Time lost—days. |
|-------|--------------------------|------|-------------------|---------------------|-----------|-------------|--|-----------------|
| 1912. |                          |      |                   |                     |           |             |  |                 |
| Jan.  | 23 Ralph Davidson.....   | 17   | Sandoval.....     | 1                   | .....     | .....       | Foot broken, pit car.....                        | 33              |
|       | 23 Gus Freund.....       | 21   | Livingston.....   | 1                   | .....     | .....       | Leg broken falling slate.....                    | 158             |
|       | 24 Chas. Smith.....      | 18   | Staunton.....     | 1                   | .....     | .....       | Head injured, kicked by mule..                   | 137             |
|       | 29 John Reineke.....     | 27   | Breese.....       | 1                   | 1         | 2           | Body injured, pit cars.....                      | 43              |
| Feb.  | 1 Dave Domenick.....     | 37   | Williamson.....   | 1                   | .....     | .....       | Leg broken, falling rock.....                    | *               |
|       | 1 L. Howard.....         | 52   | Collinsville..... | 1                   | 2         | 3           | Eye destroyed, shot explosion..                  | *               |
|       | 5 John Stacas.....       | 27   | Glen Carbon.....  | 1                   | 3         | 4           | Eye injured, shot explosion.....                 | 120             |
|       | 6 Oscar Hanstine.....    | 26   | Staunton.....     | 1                   | .....     | .....       | Leg broken, pit car.....                         | 100             |
|       | 8 Geo. Coles.....        | 28   | Divernon.....     | 1                   | 2         | 3           | Body injured, pit car.....                       | *               |
|       | 9 Geo. Joseph.....       | 22   | Collinsville..... | 1                   | .....     | .....       | Fingers injured, pit car.....                    | 30              |
|       | 10 Wm. Bucknell.....     | 28   | Beckemeyer.....   | 1                   | .....     | .....       | Leg injured, kicked by mule.....                 | 30              |
|       | 13 John Viskacil.....    | 39   | Edwardsville..... | 1                   | 5         | 6           | Body injured, falling clod.....                  | 53              |
|       | 14 Robert Schultze.....  | 21   | Troy.....         | 1                   | .....     | .....       | Leg broken, pit cars.....                        | 140             |
|       | 15 Ernst Johnson.....    | 20   | Maryville.....    | 1                   | .....     | .....       | Arm injured, pit car.....                        | 53              |
|       | 19 Vin Kashmarek.....    | 22   | Staunton.....     | 1                   | .....     | .....       | Leg broken, falling coal.....                    | *               |
|       | 24 Albert Hauck.....     | 20   | Collinsville..... | 1                   | .....     | .....       | Arm injured, switch.....                         | 40              |
|       | 27 Chas. Thieband.....   | 46   | Livingston.....   | 1                   | 4         | 5           | Leg broken, falling coal.....                    | *               |
| Mar.  | 1 M. Ratz.....           | 32   | Maryville.....    | 1                   | 3         | 4           | Collar bone broken, falling coal.                | *               |
|       | 6 Pietro Del Pozzo.....  | 48   | Williamson.....   | 1                   | 8         | 9           | Leg broken, falling coal.....                    | *               |
|       | 13 L. Coons.....         | 30   | Troy.....         | 1                   | 1         | 2           | Arm broken, falling slate.....                   | 60              |
|       | 13 Thomas Evans.....     | 46   | Glen Carbon.....  | 1                   | 5         | 5           | Leg injured, pit cars.....                       | 42              |
|       | 16 Rosie Fonnigo.....    | 22   | Staunton.....     | 1                   | .....     | .....       | Shoulders burned, powder exp.                    | 80              |
|       | 20 Wm. Hayes.....        | 23   | New Baden.....    | 1                   | .....     | .....       | Back injured, falling coal.....                  | 62              |
|       | 21 Geo. Essenspires..... | 16   | Breese.....       | 1                   | .....     | .....       | Hand injured, kicked by mule..                   | *               |
|       | 21 F. Dezlock.....       | 35   | Maryville.....    | 1                   | .....     | .....       | Finger injured, pit car.....                     | *               |
|       | 23 G. P. Wolf.....       | 23   | Breese.....       | 1                   | .....     | .....       | Pelvisbone broken, falling coal.                 | 49              |
|       | 24 William Bach.....     | 42   | Edwardsville..... | 1                   | 1         | 2           | Leg injured, drill handle.....                   | 40              |
|       | 25 W. Teasel.....        | 26   | Glen Carbon.....  | 1                   | 2         | 3           | Hand injured, machine.....                       | 49              |
|       | 25 Henry Hoppe.....      | 55   | Edwardsville..... | 1                   | 6         | 6           | Hand injured, falling coal.....                  | 60              |
|       | 25 E. Smiley.....        | 26   | Maryville.....    | 1                   | 1         | 2           | Foot injured, stepped on nail...                 | 80              |
|       | 26 John Anscot.....      | 35   | Collinsville..... | 1                   | 2         | 3           | Body injured, falling slate.....                 | 65              |
|       | 28 Sam Kitchen.....      | 20   | do.....           | 1                   | .....     | .....       | Body injured, kicked by mule..                   | *               |
| May   | 6 L. Bom.....            | 30   | Troy.....         | 1                   | 3         | 4           | Ankle injured, falling slate.....                | 60              |
|       | 13 John Linkscrew.....   | 21   | Collinsville..... | 1                   | .....     | .....       | Fingers injured, pit cars.....                   | 36              |
|       | 23 Fred Hiffman.....     | 67   | Staunton.....     | 1                   | 7         | 3           | Leg injured, falling coal from<br>tipple.....    | 40              |
|       | 25 Hy Beekman.....       | 38   | Germantown.....   | 1                   | 4         | 5           | Leg broken, falling rock.....                    | 90              |
|       | 29 Steve Broderick.....  | 39   | Maryville.....    | 1                   | .....     | .....       | Back injured, fell off crossbar..                | *               |
|       | 29 Louis Calone.....     | 22   | Collinsville..... | 1                   | .....     | .....       | Leg injured, falling prop.....                   | *               |
| June  | 4 John Wilfong.....      | 40   | Staunton.....     | 1                   | .....     | .....       | Head injured, falling coal.....                  | *               |
|       | 8 Horace Jackson.....    | 33   | Odin.....         | 1                   | .....     | .....       | Ankle broken, car puller rope..                  | *               |
|       | 11 C. Krupoky.....       | 26   | Maryville.....    | 1                   | .....     | .....       | Head injured, kicked by mule..                   | *               |
|       | 13 Aug. C. Spencer.....  | 53   | Livingston.....   | 1                   | 5         | 3           | Body injured, prop and box.....                  | 38              |
|       | 24 Sam Watts.....        | 40   | Odin.....         | 1                   | .....     | .....       | Leg broken, tail chain.....                      | *               |
|       | Total.....               |      |                   | 49                  | 59        | 152         | 177  |                 |

\* Not returned to work July 1, 1912.

Total number injured..... 108  
 Not returned to work July 1, 1912..... 21

Number returned..... 87

Time lost by men returned to work—days..... 5,709  
 Average days lost..... 65.62

*Recapitulation of non-fatal casualties—Eighth District—1912.*

| Residence.        | No. | Occupation.         | No. | Cause of accident.      | No. | Colliery.                 | No. |
|-------------------|-----|---------------------|-----|-------------------------|-----|---------------------------|-----|
| Beckemeyer.....   | 2   | Cagers.....         | 4   | Carpuller rope.....     | 1   | Breese-Trenton.....       | 5   |
| Breese.....       | 7   | Carpenter.....      | 1   | Coal and prop.....      | 1   | Centralia.....            | 3   |
| Centralia.....    | 3   | Couplers.....       | 3   | Coal fell down shaft..  | 2   | Chicago-Sandoval.....     | 2   |
| Collinsville..... | 23  | Drivers.....        | 30  | Coal fell from tippie.. | 1   | City.....                 | 2   |
| DeCamp.....       | 1   | Engineer.....       | 1   | Cross bar.....          | 1   | Consolidated.....         | 4   |
| Divernon.....     | 1   | Laborers.....       | 7   | Drill handle.....       | 1   | DeCamp.....               | 3   |
| Donkville.....    | 1   | Loaders.....        | 11  | Engine and car.....     | 1   | Donk Bros.....            | 30  |
| Edwardsville..... | 3   | Machine helper..... | 1   | Falling box.....        | 1   | Edwardsville Home Trade.  | 1   |
| Germantown.....   | 1   | Mach. runners.....  | 6   | Falling clod.....       | 2   | Kerus-Donnewald.....      | 1   |
| Glen Carbon.....  | 9   | Miners.....         | 33  | Falling coal.....       | 15  | Lumagbi.....              | 15  |
| Livingston.....   | 11  | Motormen.....       | 2   | Falling prop.....       | 1   | Madison corp.....         | 8   |
| Maryville.....    | 7   | Timberman.....      | 4   | Falling rock.....       | 4   | Mt. Olive & Staunton..... | 14  |
| New Baden.....    | 2   | Trackman.....       | 1   | Falling slate.....      | 16  | New Staunton.....         | 11  |
| Odin.....         | 4   | Trappers.....       | 4   | Fell down.....          | 2   | North Breese.....         | 2   |
| Pocahontas.....   | 1   |                     |     | Fell off crossbar.....  | 1   | Odin.....                 | 4   |
| Sandoval.....     | 2   |                     |     | Flying coal.....        | 2   | Pocahontas.....           | 1   |
| Staunton.....     | 12  |                     |     | Flying plug.....        | 1   | Southern.....             | 2   |
| Troy.....         | 13  |                     |     | Gas explosion.....      | 1   |                           |     |
| Williamson.....   | 3   |                     |     | Machine.....            | 2   |                           |     |
| Worden.....       | 1   |                     |     | Machine truck.....      | 1   |                           |     |
|                   |     |                     |     | Motor.....              | 2   |                           |     |
|                   |     |                     |     | Mule, kicked by.....    | 6   |                           |     |
|                   |     |                     |     | Nail, stepped on.....   | 1   |                           |     |
|                   |     |                     |     | Pick.....               | 1   |                           |     |
|                   |     |                     |     | Pit cars.....           | 30  |                           |     |
|                   |     |                     |     | Powder explosion.....   | 2   |                           |     |
|                   |     |                     |     | Prop and box.....       | 1   |                           |     |
|                   |     |                     |     | Prop and truck.....     | 1   |                           |     |
|                   |     |                     |     | Railroad cars.....      | 1   |                           |     |
|                   |     |                     |     | Shot explosion.....     | 2   |                           |     |
|                   |     |                     |     | Switch.....             | 2   |                           |     |
|                   |     |                     |     | Tail chain.....         | 1   |                           |     |
| Total.....        | 108 |                     | 108 |                         | 108 |                           | 108 |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Eighth District—1912.*

| Number of injuries.     | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percent-<br>age of<br>injuries. |
|-------------------------|---------|----------|---------|-----------|-------------|-----------------|----------|---------------------------------|
|                         |         |          |         |           |             | Total.          | Average. |                                 |
| Ankle broken.....       | 1       | 1        |         |           | 1           |                 |          | .93                             |
| Ankles injured.....     | 4       | 1        | 3       | 3         | 4           | 171             | 42.75    | 3.70                            |
| Arms broken.....        | 4       | 3        | 1       | 2         | 5           | 207             | 51.75    | 3.70                            |
| Arms injured.....       | 4       | 1        | 3       | 2         | 3           | 196             | 49.00    | 3.70                            |
| Back broken.....        | 1       |          | 1       |           |             |                 |          | .93                             |
| Backs injured.....      | 5       | 1        | 4       | 3         | 1           | 317             | 79.20    | 4.63                            |
| Body burned.....        | 1       | 1        |         | 3         | 4           | 90              | 90.00    | .93                             |
| Bodies injured.....     | 14      | 8        | 6       | 29        | 32          | 720             | 60.00    | 12.97                           |
| Collar bone broken..... | 5       | 1        | 4       | 3         | 4           | 248             | 49.60    | 4.63                            |
| Eyes destroyed.....     | 3       | 3        |         | 8         | 11          | 120             | 120.00   | 2.77                            |
| Eye injured.....        | 1       | 1        |         | 2         | 3           | 66              | 66.00    | .93                             |
| Feet broken.....        | 2       | 1        | 1       |           | 1           | 69              | 34.50    | 1.85                            |
| Feet cut off.....       | 1       |          | 1       |           |             | 150             | 150.00   | .93                             |
| Feet injured.....       | 4       | 1        | 3       | 1         | 2           | 320             | 80.00    | 3.70                            |
| Fingers cut off.....    | 3       | 3        |         | 8         | 8           | 142             | 47.33    | 2.77                            |
| Fingers injured.....    | 10      | 4        | 6       | 11        | 15          | 367             | 45.87    | 9.26                            |
| Hands injured.....      | 6       | 3        | 3       | 10        | 12          | 276             | 55.20    | 5.56                            |
| Heads injured.....      | 4       | 2        | 2       | 5         | 3           | 169             | 84.50    | 3.70                            |
| Legs broken.....        | 15      | 8        | 7       | 32        | 39          | 1,271           | 127.10   | 13.89                           |
| Leg cut off.....        | 1       |          | 1       |           |             |                 |          | .93                             |
| Legs injured.....       | 11      | 5        | 6       | 20        | 18          | 416             | 41.60    | 10.19                           |
| Pelvis bone broken..... | 2       |          | 2       |           |             | 49              | 49.00    | 1.85                            |
| Ribs broken.....        | 3       | 1        | 2       | 10        | 11          | 205             | 68.33    | 2.77                            |
| Shoulders burned.....   | 1       |          | 1       |           |             | 80              | 80.00    | .93                             |
| Toes injured.....       | 2       |          | 2       |           |             | 60              | 30.00    | 1.85                            |
| Total.....              | 108     | 49       | 59      | 152       | 177         | 5,709           | 65.62    | 100.00                          |

*Bond County—*

| Number.         | Name of operator.                 | Postoffice address of the mines. | Output of mines in tons. |        |               |         |
|-----------------|-----------------------------------|----------------------------------|--------------------------|--------|---------------|---------|
|                 |                                   |                                  | Mine run.                | Lump.  | Other grades. | Total.  |
| SHIPPING MINES. |                                   |                                  |                          |        |               |         |
| 1               | Pocahontas Mining Co., No. 1..... | Pocahontas.....                  | 12,000                   | 78,677 | 40,850        | 131,527 |
| 2               | Northern Coal & Supply Co.....    | Sorento.....                     | 6,480                    | 16,896 | 28,277        | 51,653  |
|                 | Total—2 mines.....                | .....                            | 18,480                   | 95,573 | 69,127        | 183,180 |

Mines reported in 1911, 2.

Mines for 1912, 2.

*Clinton County—*

| Number.            | Name of operator.                       | Postoffice address of the mines. | Output of mines in tons. |         |               |           |
|--------------------|---|----------------------------------|--------------------------|---------|---------------|-----------|
|                    |   |                                  | Mine run.                | Lump.   | Other grades. | Total.    |
| SHIPPING MINES.    |   |                                  |                          |         |               |           |
| 1                  | Southern C. & M. Co., No. 9.....        | New Baden.....                   | 50,177                   | 170,016 | 132,108       | 352,301   |
| 2                  | Breese-Trenton Mining Co., Breese.....  | Breese.....                      | 24,182                   | 83,542  | 122,336       | 230,060   |
| 3                  | Breese-Trenton Mining Co., Buxton.....  | Beckemeyer.....                  | 74,463                   | 50,777  | 46,512        | 171,752   |
| 4                  | North Breese Coal & Mining Co., N. Mine | Breese.....                      | 2,793                    | 98,419  | 62,514        | 163,726   |
| 5                  | Consolidated Coal Co., W. Mine.....     | do.....                          | 4,681                    | 75,230  | 15,232        | 95,143    |
| Total—5 mines..... |   |                                  | 156,296                  | 477,984 | 378,702       | 1,012,982 |

Mines reported for 1911, 5.

Mines in 1912, 5.

*Eighth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        |         |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. | Number. |
| 123,380                           | 8,147           | 6,063                                  | 153                       | 143                       | 43                   | 186    | 131,527     | .....       | .....      | 1        | Solid...                                      | .....                          | 12     | 1       |
| 47,607                            | 4,046           | 3,000                                  | 166                       | 90                        | 40                   | 130    | 51,653      | .....       | 1          | .....    | do....  | .....                          | 15     | 2       |
| 170,987                           | 12,193          | 9,063                                  | 160                       | 233                       | 83                   | 316    | 183,180     | .....       | 1          | 1        | .....   | .....                          | 27     |         |

*Eighth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        |         |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. | Number. |
| 326,126                           | 26,175          | 2,930                                  | 200                       | .....                     | 382                  | 382    | .....       | 352,301     | 2          | 2        | U. C....                                      | .....                          | 16     | 1       |
| 162,228                           | 67,832          | 8,648                                  | 212                       | 170                       | 73                   | 243    | 230,060     | .....       | .....      | 2        | Solid...                                      | .....                          | 12     | 2       |
| 157,658                           | 14,094          | 5,052                                  | 152                       | 185                       | 81                   | 266    | 171,752     | .....       | 1          | 3        | do....  | .....                          | 19     | 3       |
| 160,021                           | 3,705           | 5,355                                  | 150                       | 105                       | 124                  | 229    | 110,057     | .....       | .....      | 2        | Both...                                       | .....                          | 15     | 4       |
| 86,709                            | 8,434           | 3,773                                  | 113                       | 145                       | 50                   | 195    | 95,143      | .....       | .....      | 4        | Solid...                                      | .....                          | 10     | 5       |
| 892,742                           | 120,240         | 25,758                                 | 165                       | 605                       | 710                  | 1,315  | 607,012     | 405,970     | 3          | 13       | .....   | .....                          | 72     |         |

## Madison County—

| Number.             | Name of operator.                       | Postoffice address of the mines. | Output of mines in tons. |           |               |           |
|---------------------|---|----------------------------------|--------------------------|-----------|---------------|-----------|
|                     |   |                                  | Mine run.                | Lump.     | Other grades. | Total.    |
| SHIPPING MINES.     |   |                                  |                          |           |               |           |
| 1                   | New Staunton Coal Co., No. 1.....       | Livingston.....                  | 179,753                  | 251,106   | 306,773       | 737,632   |
| 2                   | Mt. Olive & Staunton C. Co., No. 2..... | Staunton.....                    | 107,390                  | 253,458   | 145,196       | 506,044   |
| 3                   | Donk Bros. C. & C. Co., No. 2.....      | Maryville.....                   | 45,795                   | 195,800   | 139,309       | 380,904   |
| 4                   | Mt. Olive & Staunton C. Co., No. 1..... | Staunton.....                    | 20,728                   | 181,471   | 109,483       | 311,682   |
| 5                   | Lumaghi Coal Co., No. 2.....            | Collinsville.....                |                          | 122,535   | 115,605       | 238,140   |
| 6                   | Donk Bros. C. & C. Co., No. 1.....      | do.....                          | 39,268                   | 94,549    | 92,040        | 225,857   |
| 7                   | Donk Bros. C. & C. Co., No. 3.....      | Troy.....                        | 12,335                   | 113,714   | 83,027        | 209,076   |
| 8                   | Madison Coal Corp., No. 2.....          | Glen Carbon.....                 | 51,266                   | 107,538   | 40,400        | 199,204   |
| 9                   | Madison Coal Corp., No. 4.....          | do.....                          | 44,944                   | 96,676    | 37,093        | 178,713   |
| 10                  | Kerns-Donnewald C. Co., K-D.....        | Worden.....                      | 27,292                   | 48,777    | 46,515        | 122,584   |
| 11                  | Lumaghi Coal Co., No. 3.....            | Collinsville.....                | 7,324                    | 35,707    | 48,640        | 91,671    |
| 12                  | DeCamp Coal Mining Co., No. 1.....      | Staunton.....                    | 2,224                    | 43,888    | 41,237        | 87,349    |
| 13                  | City Coal Co., No. 3.....               | Edwardsville.....                | 7,083                    | 21,216    | 14,143        | 42,442    |
| 14                  | Edwardsville Home Trade C. Co., H. Tr.  | do.....                          | 10,350                   | 20,735    | 6,912         | 37,997    |
| 15                  | Brookside Coal Co.....                  | Troy.....                        |                          | 9,094     | 7,441         | 16,535    |
| 16                  | W. S. Walker, Henrietta.....            | Edwardsville.....                | 8,750                    | 4,000     | 2,350         | 15,100    |
| Total.....          |   |                                  | 564,502                  | 1,600,264 | 1,236,164     | 3,400,930 |
| LOCAL MINES.        |   |                                  |                          |           |               |           |
| 1                   | Hydraulic Press Brick Co.....           | Collinsville.....                | 17,909                   |           |               | 17,909    |
| 2                   | Abbey Coal Corporation.....             | do.....                          | 3,539                    | 7,079     | 1,179         | 11,797    |
| 3                   | East Side Coal Co.....                  | Edwardsville.....                | 2,537                    | 4,549     | 1,731         | 8,817     |
| 4                   | Williams & Newman.....                  | Collinsville.....                | 2,000                    | 2,200     | 1,000         | 5,200     |
| 5                   | Bullock Bros.....                       | do.....                          | 583                      | 2,098     | 1,143         | 3,824     |
| 6                   | George Kabel.....                       | Moro.....                        |                          | 1,800     |               | 1,800     |
| 7                   | Pete Meyer.....                         | Bethalto.....                    |                          | 1,700     |               | 1,700     |
| 8                   | Ernst Rink.....                         | do.....                          |                          | 800       |               | 800       |
| 9                   | Yager Coal Co.....                      | do.....                          |                          | 787       |               | 787       |
| 10                  | Ben Eccles.....                         | Alton.....                       | 700                      |           |               | 700       |
| 11                  | Hardin & Stregemier.....                | Worden.....                      |                          | 212       | 60            | 272       |
| Total.....          |   |                                  | 27,268                   | 21,225    | 5,113         | 53,606    |
| Total—27 mines..... |   |                                  | 591,770                  | 1,621,489 | 1,241,277     | 3,454,536 |

Mines reported for 1911, 27.

New mines, 3.

Abandoned mines, 3.

Mines for 1912, 27.

*Eighth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        |         |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. | Number. |
| 727,788                           | 9,844           | 5,409                                  | 195                       | .....                     | 622                  | 622    | .....       | 737,632     | 5          | 11       | U. C. ....                                    | 32                             |        | 1       |
| 495,518                           | 10,526          | 2,665                                  | 148                       | .....                     | 560                  | 560    | .....       | 506,044     | 2          | 11       | do. ....                                      | 30                             |        | 2       |
| 365,677                           | 15,227          | 3,875                                  | 176                       | 225                       | 225                  | 450    | .....       | 380,904     | .....      | 15       | do. ....                                      | 30                             |        | 3       |
| 295,473                           | 16,209          | 1,736                                  | 181                       | .....                     | 343                  | 343    | .....       | 311,682     | .....      | 3        | do. ....                                      | 19                             |        | 4       |
| 233,413                           | 4,727           | 2,226                                  | 107                       | .....                     | 430                  | 430    | .....       | 238,140     | 2          | 10       | do. ....                                      | 30                             |        | 5       |
| 217,584                           | 8,273           | 9,698                                  | 139                       | 180                       | 120                  | 300    | 225,857     | .....       | 1          | 2        | Solid. ....                                   | 16                             |        | 6       |
| 198,574                           | 10,502          | 7,938                                  | 187                       | 184                       | 163                  | 347    | 209,076     | .....       | 1          | 13       | do. ....                                      | 20                             |        | 7       |
| 186,296                           | 12,908          | 2,280                                  | 157                       | .....                     | 273                  | 273    | 35,703      | .....       | .....      | 4        | Both. ....                                    | 10                             |        | 8       |
| 169,022                           | 9,691           | 3,453                                  | 154                       | .....                     | 265                  | 265    | 94,928      | .....       | .....      | 1        | do. ....                                      | .....                          |        | 9       |
| 117,399                           | 5,185           | 1,168                                  | 158                       | .....                     | 163                  | 163    | .....       | 122,584     | .....      | 1        | U. C. ....                                    | 8                              |        | 10      |
| 88,872                            | 2,799           | 757                                    | 104                       | 13                        | 147                  | 160    | .....       | 91,671      | 1          | 5        | do. ....                                      | 12                             |        | 11      |
| 83,519                            | 3,830           | 729                                    | 101                       | 119                       | 70                   | 189    | .....       | 87,349      | 3          | 3        | do. ....                                      | 14                             |        | 12      |
| 21,838                            | 20,604          | 414                                    | 212                       | .....                     | 71                   | 71     | 3,849       | .....       | .....      | 2        | Both. ....                                    | 7                              |        | 13      |
| 17,500                            | 20,497          | 1,592                                  | 243                       | 36                        | 12                   | 48     | 37,997      | .....       | 1          | 1        | Solid. ....                                   | 31                             |        | 14      |
| 11,574                            | 4,961           | 800                                    | 188                       | 23                        | 19                   | 42     | 16,535      | .....       | .....      | .....    | do. ....                                      | 5                              |        | 15      |
| 13,600                            | 1,500           | 380                                    | 90                        | .....                     | 38                   | 38     | 2,000       | 13,100      | .....      | .....    | Both. ....                                    | 4                              |        | 16      |
| 3,243,647                         | 157,283         | 45,120                                 | 159                       | 780                       | 3,521                | 4,301  | 625,945     | 2,774,985   | 16         | 85       | .....   | .....                          | 268    | .....   |
| .....                             | .....           | .....                                  | .....                     | .....                     | .....                | .....  | .....       | .....       | .....      | .....    | .....   | .....                          | .....  | .....   |
| .....                             | 17,909          | 539                                    | 225                       | 8                         | 3                    | 11     | 17,909      | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 11,797          | 500                                    | 255                       | 12                        | 3                    | 15     | 11,797      | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 8,817           | 339                                    | 209                       | 9                         | 3                    | 12     | 8,817       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 5,200           | 150                                    | 200                       | 5                         | 4                    | 9      | 4,000       | 1,200       | .....      | .....    | U. C. ....                                    | .....                          | .....  | 4       |
| .....                             | 3,824           | 105                                    | 252                       | 7                         | 2                    | 9      | 3,824       | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 1,800           | 20                                     | 200                       | 4                         | 1                    | 5      | 1,800       | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 1,700           | 25                                     | 283                       | 4                         | 1                    | 5      | 1,700       | .....       | .....      | .....    | .....   | .....                          | .....  | 7       |
| .....                             | 800             | 2                                      | 66                        | 6                         | 1                    | 7      | 800         | .....       | .....      | .....    | .....   | .....                          | .....  | 8       |
| .....                             | 787             | 35                                     | 150                       | 3                         | 1                    | 4      | 787         | .....       | .....      | .....    | .....   | .....                          | .....  | 9       |
| .....                             | 700             | .....                                  | 100                       | 3                         | 1                    | 4      | 700         | .....       | .....      | .....    | .....   | .....                          | .....  | 10      |
| .....                             | 272             | 7                                      | 40                        | 2                         | 1                    | 3      | 272         | .....       | .....      | .....    | .....   | .....                          | .....  | 11      |
| .....                             | 53,606          | 1,722                                  | 180                       | 63                        | 21                   | 84     | 52,406      | 1,200       | .....      | .....    | .....   | .....                          | .....  | .....   |
| 3,243,647                         | 210,889         | 46,842                                 | 167                       | 843                       | 3,542                | 4,385  | 678,351     | 2,776,185   | 16         | 85       | .....   | .....                          | 268    | .....   |

## Marion County—

| Number.             | Name of operator.                      | Postoffice address of the mines. | Output of mines in tons. |         |               |           |
|---------------------|--|----------------------------------|--------------------------|---------|---------------|-----------|
|                     |  |                                  | Mine run.                | Lump.   | Other grades. | Total.    |
| SHIPPING MINES.     |  |                                  |                          |         |               |           |
| 1                   | Marion Co. Coal Co. ....               | Centralia. ....                  | 198,535                  | 68,688  | 90,425        | 357,648   |
| 2                   | Centralia Coal Co., No. 2. ....        | do. ....                         | 8,981                    | 31,519  | 205,401       | 245,901   |
| 3                   | Chicago Sandoval Coal Co., No. 2. .... | Sandoval. ....                   | 28,669                   | 97,777  | 67,242        | 193,688   |
| 4                   | Centralia Coal Co., No. 4. ....        | Centralia. ....                  | 47,740                   | 43,503  | 97,122        | 188,365   |
| 5                   | Odin Coal Co., Odin. ....              | Odin. ....                       | 75,173                   | 52,970  | 38,995        | 167,138   |
| 6                   | Chicago Sandoval Coal Co., No. 1. .... | Sandoval. ....                   | 25,446                   | 14,531  | 11,130        | 51,207    |
| Total—6 mines. .... |  |                                  | 384,544                  | 308,988 | 510,415       | 1,203,947 |

Mines reported for 1911, 7.  
 Credited to Washington county, 1.  
 Mines in 1912, 6.

## Shipping mines—recapitulation by

| Counties.   | Number of mines. | Productions of different grades in tons. |           |         |         |           |         | Disposition of out-put—tons. |                              |                 |
|-------------|------------------|--|-----------|---------|---------|-----------|---------|------------------------------|------------------------------|-----------------|
|             |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.      | Slack.  | Total.                       | Loaded on cars for shipment. | Other purposes. |
| Bond.....   | 2                | 18,480                                   | 95,572    | 8,785   | 18,260  | 42,082    | .....   | 18,180                       | 170,987                      | 12,193          |
| Clinton.... | 5                | 156,296                                  | 477,984   | 57,520  | 51,361  | 180,660   | 89,161  | 1,012,982                    | 892,742                      | 120,240         |
| Madison.... | 16               | 564,502                                  | 1,600,264 | 170,845 | 208,314 | 706,286   | 150,719 | 3,400,930                    | 3,243,647                    | 157,283         |
| Marion....  | 6                | 384,544                                  | 308,988   | 165,997 | 46,663  | 269,477   | 28,278  | 1,203,947                    | 973,423                      | 230,524         |
| Total.      | 29               | 1,123,822                                | 2,482,809 | 403,147 | 324,598 | 1,198,505 | 268,158 | 5,801,039                    | 5,280,799                    | 520,240         |



*Eighth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |
| 349,568                           | 8,080           | 3,758                                  | 242                       | 176                       | 154                  | 330    | .....       | 357,648     | .....      | .....    | U. C. ....                                    | .....                          | 18     |
| 108,874                           | 137,027         | 8,203                                  | 194                       | 210                       | 90                   | 300    | 245,901     | .....       | .....      | 1        | Solid. ....                                   | .....                          | 22     |
| 186,575                           | 7,113           | 7,709                                  | 229                       | 175                       | 63                   | 238    | 193,688     | .....       | .....      | 2        | do. ....                                      | .....                          | 32     |
| 125,884                           | 62,481          | 7,385                                  | 201                       | 140                       | 76                   | 216    | 188,365     | .....       | .....      | 2        | do. ....                                      | .....                          | 20     |
| 154,572                           | 12,566          | 1,529                                  | 213                       | .....                     | 215                  | 215    | 8,696       | 158,442     | .....      | 4        | Both. ....                                    | .....                          | 24     |
| 47,950                            | 3,257           | 2,208                                  | 153                       | 70                        | 30                   | 100    | 51,207      | .....       | .....      | .....    | Solid. ....                                   | .....                          | 9      |
| 973,423                           | 230,524         | 30,792                                 | 205                       | 771                       | 628                  | 1,399  | 687,857     | 516,090     | .....      | 9        | .....   | .....                          | 125    |

*counties—Eighth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 9,063                                  | 160                       | 233          | 50      | 7     | 26                | 316    | 183,180     | .....       | 183,180          | .....          | .....              |
| 25,758                                 | 165                       | 605          | 567     | 17    | 126               | 1,315  | 607,012     | 405,970     | 496,955          | 352,301        | 162,726            |
| 45,120                                 | 159                       | 780          | 3,057   | 84    | 380               | 4,301  | 625,945     | 2,774,985   | 489,465          | 2,476,006      | 435,459            |
| 30,792                                 | 205                       | 771          | 467     | 34    | 127               | 1,399  | 687,857     | 516,090     | 679,161          | 357,648        | 167,138            |
| 110,733                                | 170                       | 2,389        | 4,141   | 142   | 659               | 7,331  | 2,103,994   | 3,697,045   | 1,848,761        | 3,185,955      | 766,323            |

*Local mines—recapitulation by*

| Counties.  | Number of mines. | Productions of different grades in tons. |           |         |         |           |         | Total.    | Disposition of output—tons.  |                 |
|------------|------------------|--|-----------|---------|---------|-----------|---------|-----------|------------------------------|-----------------|
|            |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.      | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Madison... | 11               | 27,268                                   | 21,225    | .....   | .....   | .....     | 5,113   | 53,606    | .....                        | 53,606          |
| Total..    | 11               | 27,268                                   | 21,225    | .....   | .....   | .....     | 5,113   | 53,606    | .....                        | 53,606          |
| The Dist.. | 40               | 1,151,090                                | 2,504,034 | 403,147 | 324,598 | 1,198,505 | 273,271 | 5,854,645 | 5,280,799                    | 573,846         |

Whole number of mines reported for 1911, 41.

Number of new mines opened during the year, 3.

Number of mines abandoned during the year, 4.

Whole number of mines reported for 1910, 40.

*All mines—recapitulation by*

| Counties.   | Number of mines. | Productions of different grades in tons. |           |         |         |           |         | Total.    | Disposition of output—tons.  |                 |
|-------------|------------------|--|-----------|---------|---------|-----------|---------|-----------|------------------------------|-----------------|
|             |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.      | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Bond.....   | 2                | 18,480                                   | 95,573    | 8,785   | 18,260  | 42,082    | .....   | 183,180   | 170,987                      | 12,193          |
| Clinton.... | 5                | 156,296                                  | 477,984   | 57,520  | 51,361  | 180,660   | 89,161  | 1,012,982 | 892,742                      | 120,240         |
| Madison...  | 27               | 594,770                                  | 1,621,489 | 170,845 | 208,314 | 706,286   | 155,832 | 3,454,536 | 3,243,647                    | 210,889         |
| Marion..... | 6                | 384,544                                  | 308,988   | 165,997 | 46,663  | 269,477   | 28,278  | 1,203,947 | 973,423                      | 230,524         |
| Total..     | 40               | 1,151,090                                | 2,504,034 | 403,147 | 324,598 | 1,198,505 | 273,271 | 5,854,645 | 5,280,799                    | 573,846         |

*counties—Eighth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 1,722                                  | 180                       | 63           | .....   | ..... | 21                | 84     | 52,406      | 1,200       | .....            | .....          | .....              |
| 1,722                                  | 180                       | 63           | .....   | ..... | 21                | 84     | 52,406      | 1,200       | .....            | .....          | .....              |
| 112,455                                | 172                       | 2,452        | 4,141   | 142   | 680               | 7,415  | 2,156,400   | 3,698,245   | .....            | .....          | .....              |

*counties—Eighth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 9,063                                  | 160                       | 233          | 50      | 7     | 26                | 316    | 183,180     | .....       | .....            | .....          | .....              |
| 25,758                                 | 165                       | 605          | 567     | 17    | 126               | 1,315  | 607,012     | 405,970     | .....            | .....          | .....              |
| 46,842                                 | 167                       | 843          | 3,057   | 84    | 401               | 4,385  | 678,251     | 2,776,185   | .....            | .....          | .....              |
| 30,792                                 | 205                       | 771          | 467     | 34    | 127               | 1,399  | 687,857     | 516,090     | .....            | .....          | .....              |
| 112,455                                | 172                       | 2,452        | 4,141   | 142   | 680               | 7,415  | 2,156,400   | 3,698,245   | .....            | .....          | .....              |

## NINTH INSPECTION DISTRICT—1912.

### ANNUAL REPORT.

County—St. Clair.

WALTON RUTLEDGE, *Inspector*, Alton.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing county of St. Clair.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|   |           |
|---|-----------|
| Number of counties producing coal.....                | 1         |
| Number of shipping mines.....                         | 58        |
| Number of local mines.....                            | 17        |
| Number of new or reopened mines.....                  | 4         |
| Number of closed or abandoned mines.....              | 1         |
| Number of miners.....                                 | 2,605     |
| Others underground, men.....                          | 2,637     |
| Boys underground.....                                 | 87        |
| Boys above ground.....                                | 6         |
| Others above ground.....                              | 521       |
| Total number of employees.....                        | 5,856     |
| Total tons of coal produced.....                      | 4,516,548 |
| Days of active operation, all mines.....              | 132       |
| Kegs of powder used for blasting coal.....            | 100,943   |
| Tons of coal shipped.....                             | 3,966,571 |
| Tons supplied to locomotives.....                     | 132,368   |
| Tons sold to local trade.....                         | 203,331   |
| Tons consumed and wasted at the mines.....            | 214,278   |
| Number of fatal accidents.....                        | 13        |
| Number of non-fatal accidents.....                    | 53        |
| Number of employees to each fatal accident.....       | 450       |
| Number of employees to each non-fatal accident.....   | 110       |
| Tons of coal produced to each fatal accident.....     | 347,427   |
| Tons of coal produced to each non-fatal accident..... | 85,218    |
| Ratio of fatal accidents per 1,000 employees.....     | 2.22      |

The coal production for the district is shown for the years 1911 and 1912 in the following table:

| Counties.       | Total output—tons. |           | Increase. | Decrease. |
|-----------------|--------------------|-----------|-----------|-----------|
|                 | 1911.              | 1912.     |           |           |
| St. Clair ..... | 5,274,006          | 4,516,547 | .....     | 757,458   |

The district shows a decrease of 757,458 tons for the year 1912. This decrease is due to the suspension of the mines from April 1, 1912, to June 1, 1912, the average working days for the shipping mines being only 130 days

## NEW MINES.

Three new mines have been put in operation during the year, viz:

The New National Coal and Mining Company, located on a branch of the Illinois Central Railroad, two miles south of Belleville.

The Eldnar Coal and Mining Company, located on the Louisville and Nashville R. R., O'Fallon Branch, three miles north of Belleville.

The Golden Rule Coal Co., located on the Illinois Central R. R., one mile northwest of Lenzburg.

## PROSPECTIVE MINE.

A new mine is being sunk at Edgemont by Thomas R. Mould. It will be a local mine.

## ABANDONED MINE REOPENED.

The shipping mine known as the Harmony mine, located on the Southern and E. St. Louis and Electric Railroads, which was abandoned on account of fire in the mine, has been reopened and will be known as the Maul Coal and Mining Company's mine.

## ABANDONED MINE.

The Borders Coal Co., of Marissa, has abandoned its No. 2 mine.

## CHANGE OF NAME.

The Advance and Oak Ridge mines at Marissa, which were reported last year as the Bessemer Washed Coal Co., will be known as the Egyptian Coal and Mining Company. The Tirre mine at Lenzburg, which was reported last year as the Bessemer Washed Coal Co., will be known as the Tirre Coal Company.

The mine known as the Wm. Lattman mine, near Belleville, will be known from this time as the Belleville Colliery Company.

The local mine at Marissa, known as the O. W. Schumacher and Son, will be known from this time as McGough Bros. and Stone.

Henry Hoffman mine at Freeburg, is now operated by Charles Anna.

## FIRE AT MINE.

July 1, 1911, the engine and boiler house and tipple of the Wilharmel Coal and Mining Company's mine, at Swansea, were burned down. They have been rebuilt and made fireproof, and mining was resumed November, 1911.

## IMPROVEMENTS.

The Superior Coal Company has installed first motion engines, 18 inches by 36 inches, with cone drum, manufactured by Crawford and McCrimmon of Brazil, Indiana; improved the tipple, and put in gasoline motor and new dump cages.

The John Groome Coal Company has made the top of the air shaft and fan casing fireproof, also installed fire-protection for outside buildings.

The Missouri and Illinois Coal Company has made the top of air shaft, and fan casing, fireproof, and installed pump, pipes and hose for protecting outside buildings at Wilderman mine, and retimbered the air shaft at the St. Clair mine.

The Mulberry Hill Coal Company has installed a 100 K. W. generator, and chain breast coal cutting machine, also made the fan casing fireproof.

The Avery Coal Company, at the Randle mine, has removed the fan back from the top of the air shaft and made both fan and top of air shaft fireproof; also installed fire protection for outside buildings.

The Sunlight Coal Company has retimbered a portion of both main and air shafts.

The Kolb Coal Company has installed at the Vinegar Hill mine a 6½-ton Whitcomb gasoline motor, also retimbered a portion of the air shaft. The air shaft at the Valley mine has been retimbered.

A new hoisting shaft has been sunk at Mascoutah mine, which will be used as an air shaft; an auxiliary fan has been installed between the two shafts for the ventilation of the new shaft.

The Johnson Coal Company of Marissa has retimbered the air shaft.

The St. Louis and O'Fallon Coal Company at its No. 1 mine has cleaned out the air courses and reinforced the stoppings between intake and return and put in four overcasts and regulators for splitting the air, which has increased the ventilation largely.

The Prairie Coal Company has sunk an artesian well for water supply, retimbered both shafts and put in a new boiler.

The Joseph Taylor Coal Company, St. Ellan and Ridge Prairie mines has reduced the voltage from 500 to 275 volts, to conform to the law of the State. The mine car couplings have been rearranged and a gasoline motor installed at the Taylor mine.

The Cluley-Miller Coal Company has retimbered a portion of the air shaft, and put up a new tippie and shaking screen.

The Consolidated Coal Company at No. 17 mine, Collinsville, has reduced the voltage from 500 to 275 volts, rearranged the mine car couplings, and put up guards on trolley wires.

The L. Senior Coal Company has sunk a slope near the working faces, which will be used as an escape way and air way.

The Star Coal Company has installed an air compressor and coal cutting machines.

The Gouch Coal Company, of Rentchler, has built a new tippie and shaking screens and put in new cages.

At the local mine of J. H. Beatty, Mascoutah, a new hoisting engine has been installed.

The Bretz and Schilling Coal Company has installed a new boiler and fireproofed the old boiler house at its White Rose mine.

The Coöperative Coal Company, New Athens, has built a new tippie and housing at its mine.

#### FATAL ACCIDENTS.

August 19, 1911, Emil Poirot, miner, aged 30 years, married, was killed by falling slate, in the Southern Coal Mining Co.'s No. 8 mine, Shiloh. He leaves a widow and one child.

November 14, 1911, Edward Shinnars, machine runner, aged 27 years, married, employed in the Royal Coal and Mining Company's mine, Belleville, was killed by falling slate. He leaves a widow and two children.

November 27, 1911, Reuben Mitchell, cager, aged 40 years, married, was killed by pit cars in the mine of the Sunlight Coal Company, Freeburg. He leaves a widow and three children.

January 23, 1912, Louis Vogt, miner, aged 38 years, married, was killed by falling clod in the Joseph Taylor Coal Company's, St. Ellans mine, O'Fallon. He leaves a widow and one child.

February 2, 1912, Charles T. Glasener, driver, aged 22 years, single, employed in the St. Louis and O'Fallon Coal Co.'s No. 2 mine, O'Fallon, was killed by pit cars.

February 23, 1912, Evan J. Edwards, miner, aged 50 years, single, was killed by falling coal in the St. Louis and O'Fallon Coal Co.'s No. 2 mine, O'Fallon. He leaves three children.

March 1, 1912, Joseph Koerlas, machine runner, aged 30 years, married, was killed by falling coal in the Consolidated Coal Co.'s No. 17 mine, Collinsville. He leaves a widow and five children.

March 6, 1912, Emil Miller, miner, aged 30 years, married, employed in the St. Louis and O'Fallon Coal Co.'s No. 1 mine, O'Fallon, was killed by a fall of slate. He leaves a widow and one child.

March 28, 1912, Virgil Dugan, laborer, aged 29 years, married, fell down the shaft at the International Coal and Mining Co.'s mine, Lebanon, and was instantly killed. He leaves a widow and three children.

Richard D. Leslie, laborer, aged 50 years, single, was killed at the same time and place and in the same way as Virgil Dugan.

May 7, 1912, Joseph Poliski, miner, aged 56 years, married, was killed by falling slate in the Pittsburg Coal Mining Co.'s mine, Belleville. He leaves a widow and six children.

June 15, 1912, Otto Barthelme, miner, aged 34 years, married, was killed in the Fairbanks mine of the Kolb Coal Company, Lenzburg, by falling slate. He leaves a widow and three children.

June 21, 1912, Joseph Bianjo, miner, aged 38 years, married, was killed by falling slate in the St. Louis and O'Fallon Coal Co.'s No. 2 mine, O'Fallon. He leaves a widow and three children.

Respectfully submitted,

WALTON RUTLEDGE,

*State Inspector of Mines, Ninth District, Alton, Ill.*

*Fatal casualties—Ninth District—June 30, 1912.*

| Date.   | Name.                  | Age. | Occupation.     | Residence.          | Married.<br>Single. | Widow.<br>Children. | Dependents. | Cause of death.      |
|---------|------------------------|------|-----------------|---------------------|---------------------|---------------------|-------------|----------------------|
| 1911.   |                        |      |                 |                     |                     |                     |             |                      |
| Aug. 19 | Emil Poirot.....       | 30   | Miner.....      | Belleville.....     | 1                   | 1                   | 1           | Falling slate.....   |
| Nov. 14 | Eward Shinnons.....    | 27   | Machine runner  | do.....             | 1                   | 1                   | 2           | do.....              |
| 27      | Reuben Mitchell.....   | 40   | Cager.....      | Freeburg.....       | 1                   | 1                   | 3           | Pit car.....         |
| 1912.   |                        |      |                 |                     |                     |                     |             |                      |
| Jan. 23 | Louis Vogt.....        | 38   | Miner.....      | E. St. Louis.....   | 1                   | 1                   | 1           | Falling clod.....    |
| Feb. 2  | Chas. T. Glasener..... | 22   | Driver.....     | Tilden.....         | 1                   | 1                   | 2           | Pit cars.....        |
| 23      | Evan J. Edwards.....   | 50   | Miner.....      | Belleville.....     | 1                   | 1                   | 3           | Falling coal.....    |
| Mar. 1  | Joseph Koerlas.....    | 30   | Machine helper. | Collinsville.....   | 1                   | 1                   | 5           | do.....              |
| 6       | Emil Miller.....       | 30   | Miner.....      | French Village..... | 1                   | 1                   | 1           | Falling slate.....   |
| 28      | Virgil Dugan.....      | 29   | Laborer.....    | Lebanon.....        | 1                   | 1                   | 3           | Fell down shaft..... |
| 28      | Richard D. Leslie..... | 50   | do.....         | do.....             | 1                   | 1                   | 3           | do.....              |
| May 7   | Koseph Poliski.....    | 56   | Miner.....      | Belleville.....     | 1                   | 1                   | 6           | Falling slate.....   |
| June 15 | Otto Barthelmie.....   | 34   | do.....         | Lenzburg.....       | 1                   | 1                   | 3           | do.....              |
| 21      | Joseph Bianjo.....     | 38   | do.....         | Belleville.....     | 1                   | 1                   | 3           | do.....              |
|         | Total.....             |      |                 |                     | 10                  | 3                   | 10          | 31                   |

*Recapitulation of fatal casualties—Ninth District—1912.*

| Residence.          | No. | Occupation.     | No. | Cause of accident.   | No. | Colliery.              | No. |
|---------------------|-----|-----------------|-----|----------------------|-----|------------------------|-----|
| Belleville.....     | 5   | Cager.....      | 1   | Falling clod.....    | 1   | Consolidated.....      | 1   |
| Collinsville.....   | 1   | Driver.....     | 1   | Falling coal.....    | 2   | International.....     | 2   |
| E. St. Louis.....   | 1   | Laborer.....    | 2   | Falling slate.....   | 6   | Kolb.....              | 1   |
| Freeburg.....       | 1   | Machine helper. | 1   | Fell down shaft..... | 2   | Pittsburg.....         | 1   |
| French Village..... | 1   | Machine runner  | 1   | Pit cars.....        | 2   | Royal.....             | 1   |
| Lebanon.....        | 2   | Miner.....      | 7   |                      |     | St. L. & O'Fallon..... | 4   |
| Lenzburg.....       | 1   |                 |     |                      |     | Southern.....          | 1   |
| Tilden.....         | 1   |                 |     |                      |     | Sunlight.....          | 1   |
|                     |     |                 |     |                      |     | Taylor, Joseph.....    | 1   |
| Total.....          | 13  |                 | 13  |                      | 13  |                        | 13  |



*Non-fatal casualties—Ninth District—June 30, 1912.*

| Date.   | Name.                 | Residence.             | Age. | Married.<br>Single. | Children. | Dependents. | Character<br>of injury and cause of<br>accident. | Time lost—days. |
|---------|-----------------------|------------------------|------|---------------------|-----------|-------------|--|-----------------|
| 1911.   |                       |                        |      |                     |           |             |  |                 |
| July 13 | Harry Britten.....    | 22 Collinsville.....   | 1    | 1                   |           |             | Body burned, steam.....                          | 30              |
| 15      | Sam. Hiles.....       | 45 O'Fallon.....       | 1    | 1                   | 2         |             | Body injured, pit car.....                       | 35              |
| Aug. 5  | Mike Goodlisky.....   | 34 Collinsville.....   | 1    | 1                   | 3         |             | Ankle injured, falling coal.....                 | 59              |
| 8       | Andy Gorry.....       | 52 Trenton.....        | 1    | 1                   |           |             | Body injured, falling cross bar.....             | 32              |
| 11      | Frank Winkler.....    | 40 Freeburg.....       | 1    | 3                   | 4         |             | Leg broken, pit car.....                         | 90              |
| 15      | Nick Doyle.....       | 32 Collinsville.....   | 1    | 1                   | 2         |             | Body injured, flying steel.....                  | 30              |
| 21      | John Kaiser.....      | 38 ..do.....           | 1    | 1                   |           |             | Hand injured, pit car.....                       | 30              |
| 26      | John Andrews.....     | 42 ..do.....           | 1    | 5                   | 6         |             | Back injured, falling slate.....                 | 43              |
| 29      | Chas. Hartman.....    | 68 ..do.....           | 1    | 8                   | 9         |             | Body injured, falling slate.....                 | 30              |
| Sept. 7 | Wesley Fowler.....    | 48 ..do.....           | 1    | 5                   | 6         |             | Body injured, falling clod.....                  | 30              |
| 11      | Frank Salvina.....    | 38 ..do.....           | 1    | 3                   | 4         |             | Leg injured, truck.....                          | 75              |
| 20      | Sylvester Kemp.....   | 53 Belleville.....     | 1    | 3                   | 4         |             | Back broken, falling clod.....                   | 54              |
| 23      | James Larusse.....    | 34 Collinsville.....   | 1    | 1                   |           |             | Foot injured, falling slate.....                 | *               |
| Oct. 9  | Wm. Rehy.....         | 20 Belleville.....     | 1    |                     | 1         |             | Body injured, pit car.....                       | 60              |
| 9       | Cass Mattea.....      | 32 Collinsville.....   | 1    |                     |           |             | Hand injured, machine.....                       | 55              |
| 11      | John Jove.....        | 22 Belleville.....     | 1    |                     |           |             | Foot injured, pit car.....                       | 30              |
| 14      | Richard Griffith..... | 30 O'Fallon.....       | 1    | 1                   | 2         |             | Body injured, pit car.....                       | 35              |
| 15      | Theo. Walkemer.....   | 48 Trenton.....        | 1    |                     |           |             | Back injured falling clod.....                   | 45              |
| 18      | Andrew Keissell.....  | 22 Freeburg.....       | 1    | 3                   | 4         |             | Leg broken, pit car.....                         | 90              |
| 25      | Ed. Smith.....        | 48 Collinsville.....   | 1    | 2                   | 3         |             | Body burned, electric current.....               | *               |
| Nov. 6  | Phil E. Deitrich..... | 30 Freeburg.....       | 1    | 1                   | 2         |             | Body injured, pit car.....                       | 90              |
| 13      | Jas. Grivette.....    | 31 Collinsville.....   | 1    | 2                   | 3         |             | Body injured, falling clod.....                  | 43              |
| 15      | M. J. Smith.....      | 48 Trenton.....        | 1    | 1                   | 2         |             | Rib broken, falling clod.....                    | 45              |
| 16      | Frank Welz.....       | 52 ..do.....           | 1    | 1                   |           |             | Collar bone broken, falling clod.....            | 40              |
| Dec. 4  | Ben Zapf.....         | 39 Collinsville.....   | 1    | 4                   | 5         |             | Body injured, pit car.....                       | 30              |
| 11      | Tony Zellis.....      | 23 ..do.....           | 1    | 1                   |           |             | Leg injured, pit car.....                        | 30              |
| 14      | Frank Polconous.....  | 35 ..do.....           | 1    | 4                   |           |             | Back injured, falling slate.....                 | 31              |
| 1912.   |                       |                        |      |                     |           |             |  |                 |
| Jan. 4  | Chas. McCan.....      | 30 O'Fallon.....       | 1    | 2                   | 3         |             | Body injured, pit car.....                       | 60              |
| 11      | Ike Edwards.....      | 19 Caseyville.....     | 1    |                     |           |             | Leg injured, motor.....                          | 60              |
| 12      | John Jackson.....     | 20 O'Fallon.....       | 1    |                     |           |             | Leg injured, pit car.....                        | 42              |
| 15      | Chas. Peterson.....   | 28 Belleville.....     | 1    | 2                   | 3         |             | Body injured, pit car.....                       | 30              |
| 19      | Tom Solmanous.....    | 30 ..do.....           | 1    | 1                   |           |             | Back injured, squeezed by mule.....              | 35              |
| 20      | L. Beasley.....       | 27 ..do.....           | 1    | 4                   |           |             | do.....  | 32              |
| 21      | Jos. Frey.....        | 36 Collinsville.....   | 1    | 5                   | 6         |             | Foot injured, fan.....                           | 79              |
| 24      | Geo. Kuhn.....        | 35 O'Fallon.....       | 1    |                     |           |             | Arm broken, falling clod.....                    | 50              |
| 26      | A. Bartkus.....       | 29 Collinsville.....   | 1    |                     |           |             | Hand injured, falling coal.....                  | 38              |
| 31      | Otto Oblinger.....    | 28 Trenton.....        | 1    |                     |           |             | Leg injured, pit car.....                        | 45              |
| Feb. 10 | Frank Woodscheck..... | 27 E. St. Louis.....   | 1    | 2                   | 3         |             | Rib broken, squeezed by mule.....                | 40              |
| 13      | Arthur Ward.....      | 24 Belleville.....     | 1    | 1                   | 2         |             | Body injured, falling clod.....                  | 90              |
| 14      | A. D. Peters.....     | 30 French Village..... | 1    | 4                   | 5         |             | Hand injured, pit car.....                       | 90              |
| 17      | Robert Parrot.....    | 31 E. St. Louis.....   | 1    | 1                   | 2         |             | Leg broken, pit car.....                         | 60              |
| 18      | Evert Browing.....    | 19 Freeburg.....       | 1    |                     | 1         |             | Leg broken, falling clod.....                    | 90              |
| Mar. 4  | Virgle Strebe.....    | 24 Caseyville.....     | 1    |                     |           |             | Wrist broken, pit car.....                       | 47              |
| 6       | Oscar Miller.....     | 20 French Village..... | 1    |                     |           |             | Ribs broken, falling slate.....                  | 35              |
| 8       | John Taylor.....      | 34 E. St. Louis.....   | 1    | 2                   | 3         |             | Foot injured, falling slate.....                 | 60              |
| 9       | Robert Ferguson.....  | 50 O'Fallon.....       | 1    |                     |           |             | Body burned, electric current.....               | 32              |
| 20      | George Russell.....   | 43 Collinsville.....   | 1    | 1                   | 2         |             | Foot injured, pit car.....                       | 37              |
| 21      | Frank Futtheck.....   | 19 ..do.....           | 1    |                     |           |             | Fingers injured, pit car.....                    | 35              |
| 22      | Roy Cooper.....       | 20 O'Fallon.....       | 1    |                     |           |             | Leg broken, tail chain.....                      | 90              |
| 29      | Henry Grafe.....      | 23 Collinsville.....   | 1    | 2                   | 3         |             | Foot injured, falling clod.....                  | 37              |
| May 21  | Joe. Ecker.....       | 62 ..do.....           | 1    | 6                   |           |             | Hand injured, axe.....                           | 30              |
| 28      | Theo. Yeger.....      | 28 Belleville.....     | 1    |                     |           |             | Foot injured, pit car.....                       | *               |
| June 13 | John Kaiser.....      | 38 Collinsville.....   | 1    | 1                   |           |             | Hand injured, falling coal.....                  | *               |
|         | Total.....            |                        | 31   | 22                  | 82        | 113         |  |                 |

\* Not returned to work.

Total number injured..... 53

Number not returned to work July 1, 1912..... 4

Number returned to work..... 49

Number of days lost by men returned to work..... 2,346

Average days lost..... 47.88

*Recapitulation of non-fatal casualties—Ninth District—1912.*

| Residence.        | No. | Occupation.     | No. | Cause of accident.     | No. | Colliery.                 | No. |
|-------------------|-----|-----------------|-----|------------------------|-----|---------------------------|-----|
| Belleville.....   | 8   | Black smith.... | 1   | Axe.....               | 1   | Breese-Trenton.....       | 5   |
| Caseyville.....   | 4   | Cagers.....     | 3   | Electric current.....  | 2   | Consolidated.....         | 22  |
| Collinsville..... | 20  | Drivers.....    | 18  | Falling clod.....      | 11  | Mulberry Hill.....        | 2   |
| East St. Louis... | 3   | Laborer.....    | 1   | Falling coal.....      | 3   | St. Louis & O'Fallon..... | 9   |
| Freeburg.....     | 4   | Loaders.....    | 9   | Falling cross bar..... | 1   | Southern.....             | 6   |
| French Village... | 2   | Machine helpers | 3   | Falling slate.....     | 6   | Star.....                 | 2   |
| O'Fallon.....     | 7   | Machine runner  | 3   | Fan.....               | 1   | Taylor, Joseph.....       | 7   |
| Trenton.....      | 5   | Miners.....     | 12  | Flying steel.....      | 1   |                           |     |
|                   |     | Timbermen.....  | 2   | Machine.....           | 1   |                           |     |
|                   |     | Trip rider..... | 1   | Mule.....              | 3   |                           |     |
|                   |     |                 |     | Pit ears.....          | 20  |                           |     |
|                   |     |                 |     | Steam.....             | 1   |                           |     |
|                   |     |                 |     | Tail chain.....        | 1   |                           |     |
|                   |     |                 |     | Truck.....             | 1   |                           |     |
| Total.....        | 53  |                 | 53  |                        | 53  |                           | 53  |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Ninth District—1912.*

| Nature of injuries.     | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percent-<br>age of<br>injuries. |
|-------------------------|---------|----------|---------|-----------|-------------|-----------------|----------|---------------------------------|
|                         |         |          |         |           |             | Total.          | Average. |                                 |
| Ankle injured.....      | 1       | 1        | .....   | 3         | 4           | 59              | 59.00    | 1.89                            |
| Arm broken.....         | 1       | 1        | 1       | 3         | 4           | 50              | 50.00    | 1.89                            |
| Back broken.....        | 1       | 1        | .....   | .....     | .....       | .....           | .....    | 1.89                            |
| Backs injured.....      | 5       | 3        | 2       | 13        | 16          | 186             | 37.20    | 9.43                            |
| Bodies burned.....      | 3       | 1        | 2       | 2         | 3           | 62              | 31.00    | 5.66                            |
| Bodies injured.....     | 13      | 12       | 1       | 28        | 40          | 595             | 45.77    | 24.53                           |
| Collar bone broken..... | 1       | .....    | 1       | .....     | .....       | 40              | 40.00    | 1.89                            |
| Feet injured.....       | 7       | 4        | 3       | 10        | 14          | 297             | 49.50    | 13.20                           |
| Fingers injured.....    | 1       | .....    | 1       | .....     | .....       | 35              | 35.00    | 1.89                            |
| Hand injured.....       | 6       | 2        | 4       | 10        | 12          | 183             | 36.60    | 11.32                           |
| Legs broken.....        | 5       | 4        | 1       | 7         | 11          | 420             | 84.00    | 9.43                            |
| Legs injured.....       | 5       | 1        | 4       | 3         | 4           | 252             | 50.40    | 9.43                            |
| Ribs broken.....        | 3       | 2        | 1       | 3         | 5           | 120             | 40.00    | 5.66                            |
| Wrist broken.....       | 1       | .....    | 1       | .....     | .....       | 47              | 47.00    | 1.89                            |
| Total.....              | 53      | 31       | 22      | 82        | 113         | 2,346           | 47.88    | 100.00                          |

*St. Clair County—*

| Number.         | Name of operator.                            | Postoffice address of the mines. | Output of mines in tons. |           |               |           |
|-----------------|--|----------------------------------|--------------------------|-----------|---------------|-----------|
|                 |  |                                  | Mine run.                | Lump.     | Other grades. | Total.    |
| SHIPPING MINES. |  |                                  |                          |           |               |           |
| 1               | St. Louis & O'Fallon Coal Co., No. 2.....    | E. St. Louis.....                | 9,960                    | 361,716   | 193,032       | 564,708   |
| 2               | Consolidated Coal Co., No. 17.....           | Collinsville.....                | 8,911                    | 351,734   | 156,268       | 516,913   |
| 3               | Southern Coal & Mining Co., No. 8.....       | Belleville.....                  | 83,983                   | 164,851   | 83,153        | 331,987   |
| 4               | Prairie Coal Co., Prairie.....               | do.....                          | 1,242                    | 207,798   | 116,640       | 325,680   |
| 5               | Southern Coal & Mining Co., No. 7.....       | do.....                          | 52,712                   | 115,451   | 65,758        | 233,921   |
| 6               | Joseph Taylor Coal Co., St. Ellen.....       | O'Fallon.....                    | 100,593                  | 80,000    | 180,593       |           |
| 7               | Superior Coal & Mining Co., Superior.....    | Belleville.....                  | 3,709                    | 104,508   | 50,405        | 158,622   |
| 8               | Suburban Coal & Mining Co., S. M.....        | do.....                          | 102,199                  | 49,404    | 151,603       |           |
| 9               | Royal Coal & Mining Co., Royal.....          | do.....                          | 23,497                   | 55,056    | 53,147        | 131,700   |
| 10              | St. Louis & O'Fallon Coal Co., No. 1.....    | E. St. Louis.....                | 6,431                    | 79,448    | 42,827        | 128,706   |
| 11              | Kolb Coal Co., Mascoutah.....                | Mascoutah.....                   | 83,410                   | 23,035    | 11,345        | 117,790   |
| 12              | Breese Trenton Mining Co., T. Mine.....      | Trenton.....                     | 3,494                    | 59,133    | 42,838        | 105,465   |
| 13              | Joseph Taylor Coal Co., Taylor.....          | O'Fallon.....                    | 63,046                   | 35,000    | 98,046        |           |
| 14              | Fullerton Coal Co., Burdette.....            | Belleville.....                  | 31,483                   | 39,800    | 15,000        | 86,283    |
| 15              | Joseph Taylor Coal Co., Ridge Prairie.....   | O'Fallon.....                    | 50,452                   | 31,500    | 81,952        |           |
| 16              | Kolb Coal Co., Fairbank.....                 | New Athens.....                  | 16,402                   | 63,700    | 80,102        |           |
| 17              | Borders Coal Co., B. C. Co.....              | Marissa.....                     | 2,300                    | 39,165    | 22,753        | 64,218    |
| 18              | Pittsburg Mining Co.....                     | Belleville.....                  | 56,450                   |           |               | 56,450    |
| 19              | Johnson Coal Co., O. K.....                  | Marissa.....                     |                          | 35,353    | 20,514        | 56,167    |
| 20              | Star Coal Co., Star Mine.....                | Freeburg.....                    | 12,000                   | 21,000    | 22,461        | 55,461    |
| 21              | Mo. & Ill. Coal Co., Rentchler.....          | Rentchler.....                   |                          | 35,051    | 16,552        | 51,603    |
| 22              | Jones Bros. C. & M. Co., No. 1.....          | Marissa.....                     | 6,299                    | 31,423    | 12,927        | 50,649    |
| 23              | International Coal & Mining Co., Carbon..... | O'Fallon.....                    | 7,751                    | 19,128    | 13,901        | 40,780    |
| 24              | Summit C. & M. Co., Summit.....              | Belleville.....                  | 4,600                    | 23,231    | 12,701        | 40,532    |
| 25              | Mulberry Hill Coal Co., M. H.....            | Freeburg.....                    |                          | 26,960    | 13,480        | 40,440    |
| 26              | Dewey C. & M. Co., Gartside.....             | Belleville.....                  |                          | 32,200    | 8,000         | 40,200    |
| 27              | Wilharmil C. & C. Co., Miller Mine.....      | do.....                          | 5,102                    | 21,192    | 10,596        | 36,890    |
| 28              | Egyptian C. & M. Co., Oak Ridge.....         | Marissa.....                     | 15,599                   | 9,994     | 10,814        | 36,407    |
| 29              | Southern C. & M. Co., No. 1.....             | Belleville.....                  | 592                      | 21,924    | 13,154        | 35,670    |
| 30              | Glendale C. & M. Co., Glendale.....          | do.....                          | 9,556                    | 13,660    | 6,444         | 29,660    |
| 31              | Groom Coal Co., Richland.....                | do.....                          | 31                       | 22,842    | 6,532         | 29,405    |
| 32              | Mo. & Ill. Coal Co., Wilderman.....          | Wilderman.....                   | 595                      | 15,114    | 11,019        | 26,728    |
| 33              | L. Senior Coal Co., Branch.....              | Belleville.....                  | 11,000                   | 9,940     | 4,970         | 25,910    |
| 34              | Cluly Miller Coal Co., Ruby.....             | Caseyville.....                  | 12,084                   | 10,300    | 3,200         | 25,584    |
| 35              | Kolb Coal Co., Valley.....                   | Birkner.....                     | 25,275                   |           |               | 25,275    |
| 36              | International C. & M. Co., Bennett.....      | O'Fallon.....                    | 852                      | 19,492    | 14,669        | 35,013    |
| 37              | Gauch C. & M. Co., Enterprise.....           | Rentchler.....                   | 4,059                    | 13,299    | 6,382         | 23,740    |
| 38              | Southern C. & M. Co., No. 3.....             | Belleville.....                  | 9,161                    | 8,239     | 5,436         | 22,836    |
| 39              | Tirre C. & M. Co., Tirre.....                | Lenzburg.....                    | 12,240                   | 6,798     | 3,376         | 22,414    |
| 40              | Highland Coal Co., Highland.....             | Belleville.....                  |                          | 15,864    | 6,174         | 22,038    |
| 41              | F. Sargent & Sons, C. Mine.....              | do.....                          |                          | 15,288    | 6,141         | 21,429    |
| 42              | Maul C. & M. Co., Harmony.....               | do.....                          | 1,282                    | 11,244    | 6,841         | 19,367    |
| 43              | Southern C. & M. Co., No. 6.....             | do.....                          | 8,846                    | 5,987     | 4,171         | 19,004    |
| 44              | Vulcan C. & M. Co., Hippard Mine.....        | do.....                          | 1,432                    | 9,371     | 7,456         | 18,259    |
| 45              | T. M. Meek Coal Co., Meek.....               | Marissa.....                     | 13,794                   | 2,650     | 1,431         | 17,875    |
| 46              | White & Sons, Branch No. 2.....              | Belleville.....                  | 16,983                   |           |               | 16,983    |
| 47              | Reeb Coal Co., Murphy.....                   | do.....                          | 13,220                   |           | 1,104         | 14,324    |
| 48              | Southern C. & M. Co., No. 4.....             | do.....                          | 1,150                    | 7,734     | 4,855         | 13,739    |
| 49              | Kolb Coal Co., V. Hill.....                  | New Athens.....                  | 10,209                   |           | 3,290         | 13,499    |
| 50              | Avery Coal Co., Randle.....                  | Freeburg.....                    | 4,008                    | 5,487     | 3,370         | 12,865    |
| 51              | Sunlight Coal Co., Freeburg.....             | do.....                          | 4,274                    | 2,988     | 3,624         | 10,886    |
| 52              | New National C. & M. Co., N. Mine.....       | Belleville.....                  | 8,992                    |           |               | 8,992     |
| 53              | Southern C. & M. Co., No. 5.....             | do.....                          | 8,232                    | 275       | 241           | 8,748     |
| 54              | Mo. & Ill. Coal Co., St. Clair Mine.....     | Freeburg.....                    | 403                      | 5,973     | 1,757         | 8,133     |
| 55              | Silver Creek Coal Co., Beatty.....           | Mascoutah.....                   |                          | 5,748     | 2,076         | 7,824     |
| 56              | Egyptian C. & M. Co., Advance.....           | Marissa.....                     | 3,899                    | 168       | 57            | 4,124     |
| 57              | Golden Rule Coal Co., G. Rule.....           | Lenzburg.....                    | 226                      | 1,900     | 916           | 3,042     |
| 58              | Eldnar Coal Co., Eldnar Mine.....            | Belleville.....                  | 880                      | 792       | 475           | 2,187     |
| Total.....      |  |                                  | 602,208                  | 2,422,996 | 1,384,177     | 4,409,381 |

## Ninth District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut of both. | Number of animals under-ground. |        |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|---------------------------------|--------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                         | Mules. |
| 556,433                           | 8,275           | 6,486                                  | 229                       | 30                        | 550                  | 580    | 49,730      | 514,978     | 3           | 6        | Both.   | 30                              | 1      |
| 449,805                           | 67,108          | 3,818                                  | 201                       | ...                       | 372                  | 372    | ...         | 516,913     | 1           | 21       | U. C.   | 28                              | 2      |
| 321,866                           | 10,121          | 3,362                                  | 215                       | ...                       | 283                  | 285    | ...         | 331,987     | 1           | 5        | do.   | 20                              | 3      |
| 323,054                           | 2,626           | 13,027                                 | 232                       | 215                       | 56                   | 271    | 325,680     | ...         | ...         | ...      | Solid.  | 17                              | 4      |
| 223,377                           | 10,544          | 2,544                                  | 233                       | ...                       | 202                  | 202    | ...         | 233,921     | ...         | 1        | U. C.   | 17                              | 5      |
| 160,293                           | 23,000          | 5,619                                  | 136                       | 185                       | 53                   | 238    | 180,593     | ...         | 1           | 3        | Solid.  | 10                              | 6      |
| 155,944                           | 2,678           | 1,199                                  | 206                       | 62                        | 69                   | 131    | ...         | 158,622     | ...         | ...      | U. C.   | 14                              | 7      |
| 143,796                           | 7,807           | 5,800                                  | 229                       | 90                        | 28                   | 118    | 151,603     | ...         | ...         | ...      | Solid.  | 12                              | 8      |
| 130,279                           | 1,421           | 2,185                                  | 160                       | ...                       | 129                  | 129    | 5,933       | 125,767     | 1           | ...      | Both.   | 14                              | 9      |
| 124,048                           | 4,658           | 5,061                                  | 102                       | 280                       | 122                  | 402    | 128,706     | ...         | 1           | 4        | Solid.  | 23                              | 10     |
| 120,120                           | 97,670          | 3,900                                  | 337                       | 80                        | 22                   | 102    | 117,790     | ...         | ...         | ...      | do.   | 6                               | 11     |
| 85,425                            | 20,040          | 646                                    | 136                       | ...                       | 180                  | 180    | ...         | 105,465     | ...         | 5        | U. C.   | 15                              | 12     |
| 86,346                            | 11,700          | 3,217                                  | 144                       | 108                       | 38                   | 146    | 98,046      | ...         | ...         | 2        | Solid.  | 8                               | 13     |
| 85,083                            | 1,200           | 2,719                                  | 151                       | 74                        | 17                   | 91     | 86,283      | ...         | ...         | ...      | do.   | 7                               | 14     |
| 70,652                            | 11,300          | 2,713                                  | 125                       | 90                        | 39                   | 129    | 81,952      | ...         | ...         | 2        | U. C.   | 8                               | 15     |
| 37,852                            | 42,250          | 2,690                                  | 235                       | 45                        | 19                   | 64     | 80,102      | ...         | 1           | ...      | Solid.  | 9                               | 16     |
| 57,841                            | 6,377           | 2,098                                  | 109                       | 80                        | 22                   | 102    | 64,218      | ...         | ...         | ...      | do.   | 6                               | 17     |
| 44,370                            | 12,080          | 1,713                                  | 223                       | 42                        | 13                   | 55     | 56,450      | ...         | 1           | ...      | do.   | 4                               | 18     |
| 54,140                            | 2,027           | 1,909                                  | 130                       | 60                        | 16                   | 76     | 56,167      | ...         | ...         | ...      | do.   | 4                               | 19     |
| 50,000                            | 5,461           | 1,600                                  | 337                       | ...                       | 75                   | 75     | 47,461      | ...         | ...         | 2        | do.   | 3                               | 20     |
| 49,628                            | 1,975           | 768                                    | 151                       | ...                       | 74                   | 74     | ...         | 51,603      | ...         | ...      | U. C.   | 5                               | 21     |
| 45,029                            | 5,620           | 1,661                                  | 103                       | 60                        | 12                   | 72     | 50,649      | ...         | ...         | ...      | Solid.  | 4                               | 22     |
| 36,990                            | 3,790           | 1,415                                  | 87                        | 75                        | 32                   | 107    | 40,780      | ...         | ...         | ...      | do.   | 7                               | 23     |
| 39,688                            | 844             | 1,575                                  | 95                        | 60                        | 22                   | 82     | 40,532      | ...         | ...         | ...      | do.   | 8                               | 24     |
| 38,400                            | 2,040           | 600                                    | 60                        | ...                       | 86                   | 86     | ...         | 40,440      | ...         | 2        | U. C.   | 8                               | 25     |
| 39,700                            | 500             | 490                                    | 180                       | 38                        | 10                   | 48     | ...         | 40,200      | ...         | ...      | do.   | 4                               | 26     |
| 29,163                            | 7,727           | 1,196                                  | 86                        | 52                        | 18                   | 70     | 36,890      | ...         | ...         | ...      | Solid.  | 8                               | 27     |
| 34,250                            | 2,157           | 1,255                                  | 52                        | 80                        | 40                   | 120    | 36,407      | ...         | ...         | ...      | do.   | 8                               | 28     |
| 33,289                            | 2,381           | 316                                    | 88                        | ...                       | 111                  | 111    | ...         | 35,670      | ...         | ...      | U. C.   | 8                               | 29     |
| 23,083                            | 6,577           | 950                                    | 139                       | 35                        | 20                   | 55     | 29,660      | ...         | ...         | ...      | Solid.  | 3                               | 30     |
| 28,910                            | 495             | 850                                    | 175                       | 25                        | 10                   | 35     | 29,405      | ...         | ...         | ...      | do.   | 4                               | 31     |
| 25,505                            | 2,223           | 967                                    | 152                       | ...                       | 67                   | 67     | 22,994      | 3,734       | ...         | ...      | Both.   | 8                               | 32     |
| 23,760                            | 2,150           | 459                                    | 126                       | 23                        | 9                    | 32     | 3,209       | 22,701      | ...         | ...      | do.   | 4                               | 33     |
| 25,000                            | 584             | 850                                    | 115                       | 30                        | 7                    | 37     | 25,584      | ...         | ...         | ...      | Solid.  | 3                               | 34     |
| 21,910                            | 3,365           | 845                                    | 147                       | 32                        | 12                   | 44     | 25,275      | ...         | ...         | ...      | do.   | 4                               | 35     |
| 29,532                            | 5,481           | 875                                    | 162                       | ...                       | 73                   | 73     | 26,965      | 8,048       | 2           | ...      | Both.   | 7                               | 36     |
| 22,536                            | 1,204           | 588                                    | 108                       | 34                        | 17                   | 51     | 23,740      | ...         | ...         | ...      | Solid.  | 4                               | 37     |
| 20,916                            | 1,920           | 781                                    | 87                        | 37                        | 19                   | 56     | 22,836      | ...         | ...         | ...      | do.   | 5                               | 38     |
| 21,349                            | 1,065           | 684                                    | 68                        | 33                        | 15                   | 48     | 22,414      | ...         | ...         | ...      | do.   | 4                               | 39     |
| 8,036                             | 14,002          | 685                                    | 220                       | 20                        | 4                    | 24     | 22,038      | ...         | ...         | ...      | do.   | 3                               | 40     |
| 20,603                            | 826             | 1,031                                  | 125                       | 28                        | 6                    | 34     | 21,429      | ...         | ...         | ...      | do.   | 2                               | 41     |
| 18,299                            | 1,068           | 652                                    | 123                       | 26                        | 11                   | 37     | 19,367      | ...         | ...         | ...      | do.   | 5                               | 42     |
| 18,175                            | 829             | 618                                    | 41                        | 80                        | 27                   | 107    | 19,004      | ...         | ...         | ...      | do.   | 7                               | 43     |
| 17,014                            | 1,245           | 695                                    | 69                        | 45                        | 21                   | 66     | 18,259      | ...         | ...         | ...      | do.   | 5                               | 44     |
| 17,296                            | 579             | 642                                    | 51                        | 42                        | 18                   | 60     | 17,875      | ...         | ...         | ...      | do.   | 4                               | 45     |
| 10,483                            | 6,500           | 556                                    | 107                       | 22                        | 6                    | 28     | 16,983      | ...         | ...         | ...      | do.   | 3                               | 46     |
| 7,802                             | 6,522           | 520                                    | 213                       | 10                        | 2                    | 12     | 14,324      | ...         | ...         | ...      | do.   | 1                               | 47     |
| 12,886                            | 853             | 114                                    | 54                        | ...                       | 59                   | 59     | ...         | 13,739      | ...         | ...      | U. C.   | 5                               | 48     |
| 10,209                            | 3,209           | 449                                    | 77                        | 30                        | 10                   | 40     | 13,499      | ...         | ...         | ...      | Solid.  | 4                               | 49     |
| 11,179                            | 1,686           | 454                                    | 70                        | 30                        | 12                   | 42     | 12,865      | ...         | ...         | ...      | do.   | 6                               | 50     |
| 10,049                            | 837             | 409                                    | 61                        | 26                        | 8                    | 34     | 10,886      | ...         | 1           | ...      | do.   | 4                               | 51     |
| 8,492                             | 500             | 300                                    | 107                       | 10                        | 4                    | 14     | 8,992       | ...         | ...         | ...      | do.   | 1                               | 52     |
| 4,631                             | 4,117           | 290                                    | 88                        | 12                        | 5                    | 17     | 8,748       | ...         | ...         | ...      | do.   | 1                               | 53     |
| 7,809                             | 324             | 241                                    | 71                        | 18                        | 7                    | 25     | 8,133       | ...         | ...         | ...      | do.   | 5                               | 54     |
| 7,664                             | 160             | 250                                    | 76                        | ...                       | 30                   | 30     | ...         | 7,824       | ...         | ...      | U. C.   | 2                               | 55     |
| 2,983                             | 1,141           | 150                                    | 26                        | 20                        | 10                   | 30     | 4,124       | ...         | ...         | ...      | Solid.  | 3                               | 56     |
| 1,547                             | 1,495           | 121                                    | 119                       | 12                        | 5                    | 17     | 3,042       | ...         | ...         | ...      | do.   | 1                               | 57     |
| 2,052                             | 135             | 86                                     | 105                       | 4                         | 7                    | 11     | 2,147       | ...         | ...         | ...      | do.   | 1                               | 58     |
| 3,966,571                         | 442,810         | 97,694                                 | 130                       | 2,490                     | 3,211                | 5,701  | 2,189,769   | 2,219,612   | 13          | 53       | ...   | 424                             |        |

*St. Clair County—*

| Number.             | Name of operator.           | Postoffice address of the mines. | Output of mines in tons. |           |               |           |
|---------------------|-----------------------------|----------------------------------|--------------------------|-----------|---------------|-----------|
|                     |                             |                                  | Mine run.                | Lump.     | Other grades. | Total.    |
| LOCAL MINES.        |                             |                                  |                          |           |               |           |
| 1                   | Bretz & Schilling.....      | Belleville.....                  | 17,900                   |           |               | 17,900    |
| 2                   | Belleville Colliery Co..... | do.....                          | 17,780                   |           |               | 17,780    |
| 3                   | Tower Grove Coal Co.....    | do.....                          | 13,473                   |           |               | 13,473    |
| 4                   | R. Schramm & Son.....       | do.....                          | 5,549                    | 2,974     | 400           | 8,923     |
| 5                   | Peoples Coal Co.....        | Lebanon.....                     | 8,250                    |           |               | 8,250     |
| 6                   | Cooperative Coal Co.....    | New Athens.....                  | 7,616                    |           |               | 7,616     |
| 7                   | Diamond Joe Coal Co.....    | Millstadt.....                   | 7,136                    |           |               | 7,136     |
| 8                   | Leppert Bros.....           | do.....                          | 6,420                    |           |               | 6,420     |
| 9                   | John T. Beaty.....          | Mascoutah.....                   | 5,777                    |           |               | 5,777     |
| 10                  | McGouch Bros. & Stone.....  | Marissa.....                     | 4,210                    |           |               | 4,210     |
| 11                  | Quinn & Son.....            | Smithton.....                    | 2,800                    |           |               | 2,800     |
| 12                  | Emil Kramer.....            | Caseyville.....                  | 1,700                    |           |               | 1,700     |
| 13                  | Fred J. Zeska.....          | Belleville.....                  | 1,600                    |           |               | 1,600     |
| 14                  | Wm. Ahrens.....             | Millstadt.....                   | 1,500                    |           |               | 1,500     |
| 15                  | Chas. Arona.....            | Freeburg.....                    | 1,200                    |           |               | 1,200     |
| 16                  | Edgemont Coal Co.....       | Edgemont.....                    | 622                      |           |               | 622       |
| 17                  | St. Libori Coal Co.....     | St. Libori.....                  | 300                      |           |               | 300       |
| Total.....          |                             |                                  | 103,833                  | 2,974     | 400           | 107,207   |
| Total—75 mines..... |                             |                                  | 706,041                  | 2,425,970 | 9,312         | 4,516,588 |

Mines reported for 1911, 72.

New mines, 4.

Abandoned mines, 1.

Mines in 1912, 75.

*Shipping mines—recapitulation by*

| Counties.       | Number of mines. | Productions of different grades in tons. |           |        |         |         |         | Total.    | Disposition of out-put—tons. |                 |
|-----------------|------------------|--|-----------|--------|---------|---------|---------|-----------|------------------------------|-----------------|
|                 |                  | Mine run.                                | Lump.     | Egg.   | Nut.    | Pea.    | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| St. Clair. .... | 58               | 602,208                                  | 2,422,996 | 89,912 | 142,777 | 870,292 | 281,156 | 4,409,341 | 3,966,571                    | 442,770         |

*Ninth District—Concluded.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| .....                             | 17,900          | 747                                    | 225                       | 10                        | 4                    | 14     | 17,900      | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 17,780          | 900                                    | 198                       | 25                        | 10                   | 35     | 17,780      | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 13,473          | 402                                    | 200                       | 16                        | 2                    | 18     | 13,473      | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 8,923           | 120                                    | 207                       | 8                         | 2                    | 10     | 8,923       | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 17,250          | 58                                     | 210                       | 8                         | 5                    | 13     | .....       | 8,250       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 7,616           | 244                                    | 245                       | 6                         | 2                    | 8      | 7,616       | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 7,136           | .....                                  | 160                       | 6                         | 2                    | 8      | 7,136       | .....       | .....      | .....    | .....   | .....                          | .....  | 7       |
| .....                             | 6,420           | 21                                     | 210                       | 8                         | 1                    | 9      | 6,420       | .....       | .....      | .....    | .....   | .....                          | .....  | 8       |
| .....                             | 5,777           | 305                                    | 216                       | 5                         | 3                    | 8      | 5,777       | .....       | .....      | .....    | .....   | .....                          | .....  | 9       |
| .....                             | 4,210           | 160                                    | 240                       | 8                         | 1                    | 9      | 4,210       | .....       | .....      | .....    | .....   | .....                          | .....  | 10      |
| .....                             | 2,800           | 75                                     | 300                       | 3                         | 1                    | 4      | 2,800       | .....       | .....      | .....    | .....   | .....                          | .....  | 11      |
| .....                             | 1,700           | 84                                     | 192                       | 2                         | 1                    | 3      | 1,700       | .....       | .....      | .....    | .....   | .....                          | .....  | 12      |
| .....                             | 1,600           | 51                                     | 200                       | 2                         | 1                    | 3      | 1,600       | .....       | .....      | .....    | .....   | .....                          | .....  | 13      |
| .....                             | 1,500           | 15                                     | 200                       | 2                         | 1                    | 3      | 1,500       | .....       | .....      | .....    | .....   | .....                          | .....  | 14      |
| .....                             | 1,200           | 35                                     | 92                        | 2                         | 1                    | 3      | 1,200       | .....       | .....      | .....    | .....   | .....                          | .....  | 15      |
| .....                             | 622             | 25                                     | 90                        | 2                         | 2                    | 4      | 622         | .....       | .....      | .....    | .....   | .....                          | .....  | 16      |
| .....                             | 300             | 7                                      | 50                        | 2                         | 1                    | 3      | 300         | .....       | .....      | .....    | .....   | .....                          | .....  | 17      |
| .....                             | 107,207         | 3,249                                  | 190                       | 115                       | 40                   | 155    | 98,957      | 8,250       | .....      | .....    | .....   | .....                          | .....  | .....   |
| 3,966,571                         | 550,017         | 100,943                                | 132                       | 2,605                     | 3,251                | 5,856  | 2,288,726   | 2,227,862   | 13         | 53       | .....   | .....                          | 424    | .....   |

*counties—Ninth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 97,694                                 | 130                       | 2,490        | 2,637   | 87    | 487               | 5,701  | 2,189,769   | 2,219,612   | 4,352,765        | 21,563         | 35,013             |

*Local mines—recapitulation by*

| Counties.      | Number of mines. | Productions of different grades in tons. |             |         |          |          |          | Total.      | Disposition of out-put—tons. |                 |
|----------------|------------------|--|-------------|---------|----------|----------|----------|-------------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.       | Egg.    | Nut.     | Pea.     | Slack.   |             | Loaded on cars for shipment. | Other purposes. |
| St. Clair..... | 17               | 103, 833                                 | 2, 974      | 400     | .....    | .....    | .....    | 107, 207    | .....                        | 107, 207        |
| The State..    | 75               | 706, 041                                 | 2, 425, 970 | 90, 312 | 142, 777 | 870, 292 | 281, 156 | 4, 516, 548 | 3, 966, 571                  | 549, 977        |

Whole number of mines reported for 1911, 72.

Number of new mines opened during the year, 4.

Number of mines abandoned during the year, 1.

Whole number of mines reported for 1912, 75.

*All mines—recapitulation by*

| Counties       | Number of mines. | Productions of different grades in tons. |             |         |          |          |          | Total.      | Disposition of out-put—tons. |                 |
|----------------|------------------|--|-------------|---------|----------|----------|----------|-------------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.       | Egg.    | Nut.     | Pea.     | Slack.   |             | Loaded on cars for shipment. | Other purposes. |
| St. Clair..... | 75               | 706, 041                                 | 2, 425, 970 | 90, 312 | 142, 777 | 870, 292 | 281, 156 | 4, 516, 548 | 3, 966, 571                  | 549, 977        |



*counties—Ninth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
|  |                           |              |         |       |                   |        |             |             |                  |                |                    |
| 3,249                                  | 190                       | 115          | .....   | ..... | 40                | 155    | 98,957      | 8,250       | .....            | .....          | .....              |
| 100,943                                | 132                       | 2,605        | 2,637   | 87    | 527               | 5,856  | 2,288,726   | 2,227,862   | 4,352,765        | 21,563         | 35,013             |

*counties—Ninth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        |           | Tons mined. |                  | Blasting coal. |                    |  |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-----------|-------------|------------------|----------------|--------------------|--|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.  | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |  |
|  |                           | Miners.      | Others. | Boys. |                   |        |           |             |                  |                |                    |  |
|  |                           |              |         |       |                   |        |           |             |                  |                |                    |  |
| 100,943                                | 132                       | 2,605        | 2,637   | 87    | 527               | 5,856  | 2,383,686 | 2,132,862   | .....            | .....          | .....              |  |

## TENTH INSPECTION DISTRICT—1912.

### ANNUAL REPORT.

Counties—Jackson, Jefferson, Perry, Randolph, Washington.

THOMAS LITTLE, *Inspector*, Murphysboro.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Jackson, Jefferson, Perry, Randolph, and Washington.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|  |           |
|--|-----------|
| Number of counties producing coal .....                | 5         |
| Number of shipping mines .....                         | 40        |
| Number of local mines .....                            | 25        |
| Number of new or reopened mines .....                  | 12        |
| Number of closed or abandoned mines .....              | 14        |
| Number of miners .....                                 | 2,555     |
| Others underground, men .....                          | 2,061     |
| Boys underground .....                                 | 96        |
| Boys above ground .....                                | 2         |
| Others above ground .....                              | 490       |
| Total number of employees .....                        | 5,204     |
| Total tons of coal produced .....                      | 3,091,428 |
| Days of active operation, all mines .....              | 141       |
| Kegs of powder used for blasting coal .....            | 67,801    |
| Tons of coal shipped .....                             | 2,712,107 |
| Tons supplied to locomotives .....                     | 105,410   |
| Tons sold to local trade .....                         | 147,590   |
| Tons consumed and wasted at the mines .....            | 126,321   |
| Number of fatal accidents .....                        | 6         |
| Number of non-fatal accidents .....                    | 21        |
| Number of employees to each fatal accident .....       | 867       |
| Number of employees to each non-fatal accident .....   | 248       |
| Tons of coal produced to each fatal accident .....     | 515,238   |
| Tons of coal produced to each non-fatal accident ..... | 147,211   |
| Ratio of fatal accidents per 1,000 employees .....     | 1.15      |

The output of the mines is shown by counties for the years ended June 30, 1911 and 1912, with the increase or decrease, in the following table:

| Counties.          | Total output—tons. |           | Increase. | Decrease. |
|--------------------|--------------------|-----------|-----------|-----------|
|                    | 1911.              | 1912.     |           |           |
| Jackson .....      | 648,551            | 724,374   | 75,823    | .....     |
| Jefferson .....    | 10,732             | 8,038     | .....     | 2,694     |
| Perry .....        | 1,451,080          | 1,406,317 | .....     | 44,763    |
| Randolph .....     | 1,005,447          | 762,816   | .....     | 242,631   |
| Washington .....   | 20,387             | 189,883   | 169,496   | .....     |
| Total .....        | 3,136,197          | 3,091,428 | 245,319   | 290,088   |
| Net decrease ..... | .....              | .....     | .....     | 44,769    |

## NEW AND ABANDONED MINES.

Four shipping and eight local mines are classed as new mines, while five shipping and nine locals have been abandoned, or closed down during the year.

## CHANGE OF NAME.

The Chicago and Carbondale Coal Company, DeSoto, Jackson County, is now operated by the J. B. Kreikemeier Coal Company.

The Jefferson County Coal Co., Mt. Vernon, has changed to the Mt. Vernon Coal Company.

## IMPROVEMENTS.

The Mt. Vernon Coal Co., Mt. Vernon, Jefferson County, has bought the mine formerly operated by the Jefferson County Coal Co., and is now making improvements as follows:

Three new boilers, 46 inches by 18 feet long, made by John Mohr & Son; hoisting engines 18 inches by 30 inches; a steel tippie made by the Illinois Steel Company; a shaker, constructed by the same people, having a perforated section of 176 square feet, and is in two sections, making entire perforated surface of 352 square feet; a smoke stack, made of  $\frac{1}{4}$ -inch iron, is 5 feet in diameter and 100 feet high, and constructed on a concrete foundation 7 by 7 by 8 feet; a fan, Crawford & McCrimmon make, 12 feet in diameter, with forty-eight blades, and propelled by a Crawford & McCrimmon engine, 8 inches by 10 inches. The buildings are to be constructed of brick, which are already on the ground. The boiler room is 48 by 42 feet and has 16-inch walls. The intention is to open the mine on the panel system with electric machines and electric haulage.

The Nicholson Coal Company, Nashville, Washington County, has retimbered the escapement shaft and put in a new 16-foot fan, made by the Stephens Manufacturing Company, and made needed improvements around the main shaft. The company has bought one hundred acres of coal land, which will increase the output of the mine.

The Moffatt Coal Company, Sparta, Randolph County, has retimbered the main shaft and made it larger, so that larger cars can be put in, thereby increasing the capacity of the mine. The company has installed a pair of first motion engines, 18 inch by 36 inch, made by the Crawford & McCrimmon Manufacturing Company.

The Bald Eagle Coal Company, Winkle, Perry County, has installed two new boilers 72 inch by 20 foot with seventy 4-inch flues, made by the John Rohan & Son's Boiler Works of St. Louis. They are to give 125 H. P. each.

## FATAL ACCIDENTS.

The following is a detailed statement of the fatal accidents that have occurred in this inspection district during the year ended June 30, 1912:

September 15, 1911, Abe Goaly, driver, aged 24 years, married, employed in the Missouri & Illinois Coal Company's mine No. 4, Willisville, Perry County, was killed. Deceased was coupling cars, with his head between the cars, and while so doing, another driver came in from behind, bumping the cars together, catching his head between them. He leaves a widow and one child.

September 26, 1911, Arthur Phillips, driver, aged 28 years, married, employed by the Muddy Valley Mining and Mfg. Co., Hallidayboro, Jackson County, was riding on front end of the car, when his foot slipped off the bumper, causing him to be caught between the rib and car. He was injured internally and died the same day. He leaves a widow and one child.

November 21, 1911, Peter Kleigsmite, miner, aged 44 years, married, employed in the Brilliant Coal & Coke Company's mine, Duquoin, Perry County, was killed by falling slate. Deceased had a prop under a piece of slate, which was  $5\frac{1}{2}$  by 4 feet 5 inches thick. He was wedging down top

coal inside of the slate, when the slate came down, throwing the prop and striking him on the back of the head, breaking his neck. He leaves a widow and five children.

January 3, 1912, M. C. Bradshaw, shot firer, aged 41 years, married, employed by the DuQuoin Coal Operating Company, DuQuoin, Perry County, was shooting shots in room 6 on the 10th north entry. He had lit a shot on the right hand side of the room and walked over to the left side to light another shot, and before he got away, the shot on the right exploded, killing him instantly. He leaves a widow.

February 9, 1912, John Forrester, miner, aged 49 years, married, employed at the B. O. Cook local mine, DuQuoin, Perry County, was working at the face of entry on top of bottom coal. Deceased had been told by the mine manager to take down a piece of slate which was considered dangerous; he did not do it, but went under it to take up bottom coal, and while doing so, the slate came down, striking him on the back and head. He died two hours after the accident. He leaves a widow and six children.

March 12, 1912, Florence Chesko, miner, aged 45 years, single, employed by the Bessemer Coal & Mining Company, Tilden, Randolph County, was killed. Deceased and four other men got on the cage in the morning to go to work; when the cage was down the shaft about thirty feet, the engineer lost control of the engines, and when the cage struck the bottom of the shaft, deceased fell off into the sump. He was injured internally and died twelve hours after the accident.

Respectfully submitted,

THOMAS LITTLE,

*State Inspector of Mines, Tenth District, Murphysboro, Ill.*

*Fatal casualties—Tenth District—June 30, 1912.*

| Date.    | Name.                | Age. | Occupation.      | Residence.       | Married. | Single. | Widow. | Children. | Dependents. | Cause of death.     |
|----------|----------------------|------|------------------|------------------|----------|---------|--------|-----------|-------------|---------------------|
| 1911.    |                      |      |                  |                  |          |         |        |           |             |                     |
| Sept. 15 | Abe Gola.....        | 24   | Driver.....      | Willisville..... | 1        | 1       | 1      | 2         |             | Pit car.....        |
| 26       | Arthur Phillips..... | 28   | do.....          | Hallidayboro ..  | 1        | 1       | 1      | 2         |             | do.....             |
| Nov. 21  | Peter Khligsmith ... | 44   | Miner.....       | Duquoin.....     | 1        | 1       | 5      | 6         |             | Falling prop.....   |
| 1912.    |                      |      |                  |                  |          |         |        |           |             |                     |
| Jan. 3   | Melvin C. Brayshaw.  | 41   | Shot firer ..... | do.....          | 1        | 1       | 1      | 2         |             | Premature shot..... |
| Feb. 9   | John Foster.....     | 49   | Miner.....       | do.....          | 1        | 1       | 6      | 7         |             | Falling slate.....  |
| Mar. 10  | Florence Chesko .... | 45   | do.....          | Tilden.....      | 1        | 1       |        |           |             | Cage.....           |
|          | Total.....           |      |                  |                  | 5        | 1       | 5      | 14        | 19          |                     |

*Recapitulation of fatal casualties—Tenth District—1912.*

| Residence.        | No. | Occupation.     | No. | Cause of accident.  | No. | Colliery.                | No. |
|-------------------|-----|-----------------|-----|---------------------|-----|--------------------------|-----|
| Duquoin.....      | 3   | Drivers.....    | 2   | Cage.....           | 1   | Bessemer.....            | 1   |
| Hallidayboro..... | 1   | Miners.....     | 3   | Falling prop.....   | 1   | Brilliant.....           | 1   |
| Tilden.....       | 1   | Shot firer..... | 1   | Falling slate.....  | 1   | Cook, B. O.....          | 1   |
| Willisville.....  | 1   |                 |     | Pit cars.....       | 2   | Duquoin Operating.....   | 1   |
|                   |     |                 |     | Premature shot..... | 1   | Missouri & Illinois..... | 1   |
|                   |     |                 |     |                     |     | Muddy Valley.....        | 1   |
| Total.....        | 6   |                 | 6   |                     | 6   |                          | 6   |

*Non-fatal casualties—Tenth District—June 30, 1912.*

| Date.   | Name.                | Age. | Residence.       | Married.<br>Single. | Children. | Dependents. | Character<br>of injury and cause of<br>accident. | Time lost—days. |
|---------|----------------------|------|------------------|---------------------|-----------|-------------|--|-----------------|
| 1911.   |                      |      |                  |                     |           |             |  |                 |
| Aug. 7  | Thomas Seamon.....   | 29   | Murphysboro..    | 1                   | 2         | 3           | Body injured, falling slate.....                 | 35              |
| 12      | Elbert Harrell.....  | 40   | Sparta.....      | 1                   | 1         | 2           | Foot injured, railroad switch....                | 50              |
| 14      | C. Faverturp.....    | 22   | Murphysboro..    | 1                   |           | 1           | Hand injured, pit car.....                       | 33              |
| Sept. 2 | August Garman.....   | 65   | Willisville..... | 1                   | 1         | 2           | Back injured, falling coal.....                  | 31              |
| 21      | Walter Chaney.....   | 26   | Murphysboro..    | 1                   |           |             | Body injured, pit car.....                       | 45              |
| Oct. 17 | O. G. Hearn.....     | 45   | do.....          | 1                   | 6         | 7           | Leg injured, falling coal.....                   | 41              |
| Nov. 13 | Rollin Richards..... | 39   | do.....          | 1                   | 3         | 4           | Eye injured, rail.....                           | 34              |
| 16      | Edward Odin.....     | 24   | do.....          | 1                   |           |             | Body injured, kicked by mule....                 | 65              |
| Dec. 5  | Gene Tenwills.....   | 34   | do.....          | 1                   | 2         | 3           | Leg injured, falling coal.....                   | 31              |
| 9       | Henry Bardo.....     | 24   | Sparta.....      | 1                   | 1         | 2           | Foot injured, switch.....                        | 50              |
| 11      | Robert Sharp.....    | 40   | Duquoin.....     | 1                   |           |             | Back broken, falling slate.....                  | *               |
| 12      | Edward Kennedy.....  | 25   | do.....          | 1                   | 1         | 2           | Leg injured, pit car.....                        | 45              |
| 29      | Thos. Foster.....    | 40   | do.....          | 1                   |           |             | Foot injured, pit car.....                       | 30              |
| 1912.   |                      |      |                  |                     |           |             |  |                 |
| Jan. 23 | Nick Messins.....    | 40   | Murphysboro..    | 1                   | 5         | 6           | Ankle broken, tail rope.....                     | 37              |
| Feb. 19 | Alex Kiepler.....    | 19   | Tilden.....      | 1                   |           | 1           | Leg injured, pit car.....                        | 41              |
| 20      | Fiper Chappell.....  | 19   | do.....          | 1                   | 2         | 3           | Foot broken, pit car.....                        | 33              |
| Mar. 11 | Charles Grills.....  | 21   | Duquoin.....     | 1                   |           |             | Foot injured, pit car.....                       | 30              |
| 22      | Gas. Curty.....      | 40   | Pinckneyville..  | 1                   | 2         | 3           | Back injured, falling slate.....                 | 70              |
| May 9   | R. E. Shook.....     | 33   | Tilden.....      | 1                   | 2         | 3           | Arm broken, railroad car.....                    | 60              |
| 11      | W. D. Kurmmell.....  | 48   | Elkville.....    | 1                   | 2         | 3           | Leg injured, falling coal.....                   | *               |
| 15      | Chas. Hasker.....    | 29   | Duquoin.....     | 1                   |           | 1           | Ankle injured, flying plug.....                  | 60              |
|         | Total.....           |      |                  | 16                  | 5         | 30          | 46   |                 |

\* Not returned to work July 1, 1912.

|  |    |
|--|----|
| Total number injured.....                      | 21 |
| Number not returned to work, July 1, 1912..... | 2  |

|                              |    |
|------------------------------|----|
| Number returned to work..... | 19 |
|------------------------------|----|

|   |       |
|---|-------|
| Time lost by men returned to work—days..... | 821   |
| Average time lost—days.....                 | 43.21 |

*Recapitulation of non-fatal casualties—Tenth District—1912.*

| Residence.         | No. | Occupation.         | No. | Cause of accident.   | No. | Colliery.                | No. |
|--------------------|-----|---------------------|-----|----------------------|-----|--------------------------|-----|
| Duquoin.....       | 5   | Blacksmith.....     | 1   | Falling coal.....    | 4   | Anderson, J.....         | 1   |
| Elkville.....      | 1   | Drivers.....        | 8   | Falling slate.....   | 3   | Bessemer.....            | 2   |
| Murphysboro.....   | 8   | Laborer.....        | 1   | Flying plug.....     | 1   | Big Muddy C. & I.....    | 8   |
| Pinckneyville..... | 1   | Machine runner..... | 2   | Mule, kicked by..... | 1   | Blair, Gus.....          | 1   |
| Sparta.....        | 2   | Miners.....         | 8   | Pit cars.....        | 7   | Illinois Fuel.....       | 1   |
| Tilden.....        | 3   | Shot firer.....     | 1   | Rail.....            | 1   | Jones Bros.....          | 1   |
| Willisville.....   | 1   |                     |     | Railroad car.....    | 1   | Majestic.....            | 1   |
|                    |     |                     |     | Switch.....          | 2   | Missouri & Illinois..... | 1   |
|                    |     |                     |     | Tail rope.....       | 1   | Morris, J.....           | 1   |
|                    |     |                     |     |                      |     | Security.....            | 3   |
|                    |     |                     |     |                      |     | Wilson Bros.....         | 1   |
| Total.....         | 21  |                     | 21  |                      | 21  |                          | 21  |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Tenth District—1912.*

| Nature of injuries. | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percentage of injuries. |
|---------------------|---------|----------|---------|-----------|-------------|-----------------|----------|-------------------------|
|                     |         |          |         |           |             | Total.          | Average. |                         |
| Ankle broken.....   | 1       | 1        | .....   | 5         | 6           | 37              | 37.00    | 4.76                    |
| Ankle injured.....  | 1       | 1        | .....   |           | 1           | 60              | 60.00    | 4.76                    |
| Arm broken.....     | 1       | 1        | .....   | 2         | 3           | 60              | 60.00    | 4.76                    |
| Back broken.....    | 1       | .....    | 1       | .....     | .....       | .....           | .....    | 4.76                    |
| Backs injured.....  | 2       | 2        | .....   | 3         | 5           | 101             | 50.50    | 9.53                    |
| Bodies injured..... | 3       | 1        | 2       | 2         | 3           | 145             | 48.33    | 14.29                   |
| Eye injured.....    | 1       | 1        | .....   | 3         | 4           | 34              | 34.00    | 4.76                    |
| Feet broken.....    | 1       | 1        | .....   | 2         | 3           | 33              | 33.00    | 4.76                    |
| Feet injured.....   | 4       | 2        | 2       | 2         | 4           | 160             | 40.00    | 19.05                   |
| Hand injured.....   | 1       | 1        | .....   |           | 1           | 33              | 33.00    | 4.76                    |
| Legs injured.....   | 5       | 5        | .....   | 11        | 16          | 158             | 39.50    | 23.81                   |
| Total.....          | 21      | 16       | 5       | 30        | 46          | 821             | 43.21    | 100.00                  |

*Jackson County—*

| Number.             | Name of operator.                          | Postoffice address of the mines. | Output of mines in tons. |         |               |         |
|---------------------|--|----------------------------------|--------------------------|---------|---------------|---------|
|                     |  |                                  | Mine run.                | Lump.   | Other grades. | Total.  |
| SHIPPING MINES.     |  |                                  |                          |         |               |         |
| 1                   | Big Muddy C. & I. Co., No. 9.....          | Murphysboro..                    | 46,233                   | 75,701  | 94,511        | 216,445 |
| 2                   | Muddy Valley Mining Co.....                | Hallidayboro..                   | 46,746                   | 37,404  | 89,092        | 173,242 |
| 3                   | Big Muddy C. & I. Co., Harrison.....       | Murphysboro..                    | 13,535                   | 45,820  | 54,916        | 114,271 |
| 4                   | Gartside Coal Co., No. 4.....              | do.....                          | 17,805                   | 29,635  | 21,537        | 68,977  |
| 5                   | Gus. Blair Big Muddy C. Co., No. 1.....    | do.....                          | 3,516                    | 40,651  | 20,022        | 64,189  |
| 6                   | J. B. Kreikemeier C. Co., Little Hope..... | DeSoto.....                      | 12,000                   | 8,070   | 6,679         | 26,749  |
| 7                   | Gus. Blair Big M. C. Co., No. 2.....       | Murphysboro..                    | 442                      | 12,949  | 10,593        | 23,984  |
| Total.....          |  |                                  | 140,277                  | 250,230 | 297,350       | 687,857 |
| LOCAL MINES.        |  |                                  |                          |         |               |         |
| 1                   | Schmidgall Coal Co.....                    | Murphysboro..                    | 10,636                   |         |               | 10,636  |
| 2                   | J. B. Schimpf.....                         | Vergennes.....                   | 1,000                    | 7,300   |               | 8,300   |
| 3                   | J. B. Wood.....                            | Carbondale.....                  | 6,000                    |         |               | 6,000   |
| 4                   | H. S. Phillips.....                        | do.....                          |                          | 2,000   | 1,200         | 3,200   |
| 5                   | George W. Patrick.....                     | do.....                          |                          | 700     | 1,300         | 2,000   |
| 6                   | Wm. Bullar.....                            | DeSoto.....                      | 1,500                    |         |               | 1,500   |
| 7                   | Phillips & Johnson M. Co.....              | Carbondale.....                  | 1,045                    |         | 100           | 1,145   |
| 8                   | Ab. Boden & J. Craig.....                  | DeSoto.....                      |                          | 400     | 700           | 1,100   |
| 9                   | Schimpf & Craig.....                       | Ava.....                         |                          | 800     |               | 800     |
| 10                  | W. F. Johnson.....                         | do.....                          |                          | 800     |               | 800     |
| 11                  | W. R. Campbell.....                        | Mathews.....                     | 33                       | 459     | 16            | 508     |
| 12                  | Mike Kirby.....                            | Campbell Hill..                  |                          | 253     |               | 253     |
| 13                  | Bane & Ellace.....                         | DeSoto.....                      | 150                      |         |               | 150     |
| 14                  | V. L. Church.....                          | Ava.....                         |                          | 125     |               | 125     |
| Total.....          |  |                                  | 20,364                   | 12,837  | 3,316         | 36,517  |
| Total—21 mines..... |  |                                  | 160,641                  | 263,067 | 300,666       | 724,374 |

Mines reported for 1911, 26.

New mines, 4.

Abandoned mines, 9.

Mines for 1912, 21.



## Tenth District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-<br>cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-----------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.         | Injured. |   | Horses.                         | Mules. |         |
| 204,615                           | 11,830          | 1,852                                  | 167                       | 152                       | 93                   | 245    |             | 216,445     |                 |          | 3 U. C.                                       | 16                              |        | 1       |
| 107,582                           | 65,660          | 5,333                                  | 139                       | 132                       | 114                  | 246    | 173,242     |             | 1               | 1 Solid. |   | 22                              |        | 2       |
| 101,810                           | 12,461          | 882                                    | 125                       | 130                       | 81                   | 211    |             | 114,271     |                 | 3 U. C.  |   | 12                              |        | 3       |
| 44,277                            | 24,700          | 850                                    | 180                       | 18                        | 87                   | 105    | 13,723      | 55,254      |                 |          | do.   | 14                              |        | 4       |
| 59,575                            | 4,614           | 465                                    | 197                       | 2                         | 94                   | 96     | 511         | 63,678      |                 | 2        | do.   | 6                               |        | 5       |
| 24,999                            | 1,750           | 573                                    | 92                        | 100                       | 17                   | 117    | 26,749      |             |                 |          | do.   |                                 |        | 6       |
| 13,874                            | 10,110          | 233                                    | 210                       | 2                         | 49                   | 51     | 2,434       | 21,550      |                 |          | do.   |                                 |        | 7       |
| 556,732                           | 131,125         | 10,188                                 | 159                       | 536                       | 535                  | 1,071  | 216,659     | 471,198     | 1               | 9        |   |                                 | 70     |         |
|                                   |                 |  |                           |                           |                      |        |             |             |                 |          |   |                                 |        |         |
|                                   | 10,636          | 149                                    | 161                       |                           | 29                   | 29     | 2,055       | 8,581       |                 |          |   |                                 |        | 1       |
|                                   | 8,300           | 60                                     | 140                       | 3                         | 3                    | 6      | 8,300       |             |                 |          |   |                                 |        | 2       |
|                                   | 6,000           | 100                                    | 300                       | 6                         | 1                    | 7      | 6,000       |             |                 |          |   |                                 |        | 3       |
|                                   | 3,200           | 130                                    | 150                       | 4                         | 1                    | 5      | 3,200       |             |                 |          |   |                                 |        | 4       |
|                                   | 2,000           | 140                                    | 150                       | 4                         | 4                    | 8      | 2,000       |             |                 |          |   |                                 |        | 5       |
|                                   | 1,500           | 75                                     | 150                       | 3                         | 1                    | 4      | 1,500       |             |                 |          |   |                                 |        | 6       |
|                                   | 1,145           | 60                                     | 180                       | 2                         | 2                    | 4      | 1,145       |             |                 |          |   |                                 |        | 7       |
|                                   | 1,100           | 50                                     | 150                       | 3                         |                      | 3      | 1,100       |             |                 |          |   |                                 |        | 8       |
|                                   | 800             | 85                                     | 120                       | 4                         | 4                    | 8      | 800         |             |                 |          |   |                                 |        | 9       |
|                                   | 800             | 50                                     | 90                        | 4                         | 1                    | 5      | 800         |             |                 |          |   |                                 |        | 10      |
|                                   | 508             |  | 90                        | 2                         |                      | 2      | 508         |             |                 |          |   |                                 |        | 11      |
|                                   | 253             | 52                                     | 240                       | 1                         |                      | 1      | 253         |             |                 |          |   |                                 |        | 12      |
|                                   | 150             | 6                                      | 60                        | 2                         | 1                    | 3      | 150         |             |                 |          |   |                                 |        | 13      |
|                                   | 125             | 9                                      | 60                        | 2                         |                      | 2      | 125         |             |                 |          |   |                                 |        | 14      |
|                                   |                 |  |                           |                           |                      |        |             |             |                 |          |   |                                 |        |         |
|                                   | 36,517          | 966                                    | 146                       | 40                        | 47                   | 87     | 27,936      | 8,581       |                 |          |   |                                 |        |         |
| 556,732                           | 167,642         | 11,154                                 | 150                       | 576                       | 582                  | 1,158  | 244,595     | 479,779     | 1               | 9        |   |                                 | 70     |         |

*Jefferson County—*

| Number          | Name of operator.               | Postoffice address of the mines. | Output of mines in tons. |       |               |        |
|-----------------|---------------------------------|----------------------------------|--------------------------|-------|---------------|--------|
|                 |                                 |                                  | Mine run.                | Lump. | Other grades. | Total. |
| SHIPPING MINES. |                                 |                                  |                          |       |               |        |
| 1               | Mt. Vernon Coal Co., Mt. V..... | Mt. Vernon.....                  | 7,958                    |       |               | 7,958  |
| LOCAL MINE.     |                                 |                                  |                          |       |               |        |
| 1               | Sophia A. Shelton.....          | Opdyke.....                      |                          | 80    |               | 80     |
|                 | Total—2 mines.....              |                                  | 7,958                    | 80    |               | 8,038  |

Mines reported for 1911, 2.

Mines in 1912, 2.

## Tenth District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Ac-cidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|-------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.     | Injured. |   | Horses.                        | Mules. |         |
| 3,122                             | 4,836           | 328                                    | 143                       | 20                        | 25                   | 45     | 7,958       | .....       | .....       | .....    | Solid...                                      | .....                          | 4      | 1       |
| .....                             | 80              | .....                                  | 50                        | 3                         | .....                | 3      | 80          | .....       | .....       | .....    | .....   | .....                          | .....  | 1       |
| 3,122                             | 4,916           | 328                                    | 96                        | 23                        | 25                   | 48     | 8,038       | .....       | .....       | .....    | .....   | .....                          | 4      |         |

*Perry County—*

| Number.             | Name of operator.                         | Postoffice address of the mines. | Output of mines in tons. |         |               |           |
|---------------------|---|----------------------------------|--------------------------|---------|---------------|-----------|
|                     |   |                                  | Mine run.                | Lump.   | Other grades. | Total.    |
| SHIPPING MINES.     |   |                                  |                          |         |               |           |
| 1                   | Willis Coal & M. Co., No. 1.....          | Willisville.....                 | 222,541                  |         |               | 222,541   |
| 2                   | Majestic C. & C. Co., Majestic.....       | Duquoin.....                     | 176,038                  |         |               | 176,038   |
| 3                   | Paradise Coal Co., Paradise.....          | do.....                          | 51,361                   | 43,697  | 78,731        | 173,789   |
| 4                   | Duquoin Operating Co., Queen.....         | do.....                          | 169,416                  |         |               | 169,416   |
| 5                   | Security C. & M. Co., No. 1.....          | do.....                          | 5,928                    | 32,330  | 92,317        | 130,575   |
| 6                   | Mo. & Ill. Coal Co., No. 4.....           | Willisville.....                 | 125,583                  | 1,052   | 2,077         | 128,712   |
| 7                   | Ritchey Coal Co., No. 1.....              | Pinckneyville.....               | 92,612                   |         |               | 92,612    |
| 8                   | Brilliant C. & C. Co., Home Mine.....     | Duquoin.....                     |                          | 20,595  | 41,185        | 61,780    |
| 9                   | Bald Eagle Mining Co.....                 | Craig.....                       | 5,890                    | 22,318  | 29,290        | 57,498    |
| 10                  | St. L.-Coulterville Coal Co., Vulcan..... | Coulterville.....                | 2,396                    | 18,816  | 15,980        | 37,192    |
| 11                  | Johnson-Allen Coal Co., Barnard.....      | Cutler.....                      | 37,000                   |         |               | 37,000    |
| 12                  | Little Muddy Fuel Co., Little M.....      | Tamaroa.....                     | 6,418                    | 9,350   | 7,012         | 22,780    |
| 13                  | Bessemer C. & M. Co., White Walnut.....   | Pinckneyville.....               | 18,002                   |         |               | 18,002    |
| 14                  | Bailey Bros. Coal Co., Diamond.....       | Sunfield.....                    | 925                      | 7,605   | 8,001         | 16,531    |
| 15                  | Wilson Coal Co., Galum.....               | Cutler.....                      | 8,795                    | 10,064  | 3,271         | 22,130    |
| 16                  | Joe Morris Coal Co., No. 2.....           | Duquoin.....                     |                          | 7,887   | 4,096         | 11,983    |
| 17                  | Bailey Bros. Coal Co., No. 3.....         | Sunfield.....                    | 2,215                    | 4,535   | 3,365         | 10,115    |
| 18                  | Straif Coal Co., No. 1.....               | Pinckneyville.....               | 3,669                    |         | 177           | 3,846     |
| 19                  | Orion Coal Co., Jupiter No. 5.....        | Duquoin.....                     | 2,400                    |         |               | 2,400     |
| Total.....          |   |                                  | 931,189                  | 178,249 | 285,502       | 1,394,940 |
| LOCAL MINES.        |   |                                  |                          |         |               |           |
| 1                   | B. O. Cook.....                           | Duquoin.....                     | 4,758                    |         |               | 4,758     |
| 2                   | John Anderson.....                        | Pinckneyville.....               |                          | 2,500   | 1,040         | 3,540     |
| 3                   | New Moon Mining Co.....                   | Duquoin.....                     | 2,500                    |         |               | 2,500     |
| 4                   | J. Schneider & Beck, Norburg.....         | Pinckneyville.....               |                          | 356     | 178           | 534       |
| 5                   | C. A. House & Co.....                     | St. John.....                    |                          | 30      | 15            | 45        |
| Total.....          |   |                                  | 7,258                    | 2,886   | 1,233         | 11,377    |
| Total—24 mines..... |   |                                  | 938,447                  | 181,135 | 286,735       | 1,406,317 |

Mines reported for 1911, 23.

New mines, 4.

Abandoned mines, 3.

Mines, in 1912, 24.

*Tenth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals under-ground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|---------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                         | Mules. |         |
| 213,836                           | 8,705           | 2,247                                  | 218                       | .....                     | 236                  | 236    | .....       | 222,541     | .....      | .....    | U. C. ....                                    | 12                              |        | 1       |
| 170,000                           | 6,038           | 5,399                                  | 92                        | 300                       | 90                   | 390    | 176,038     | .....       | 1          | .....    | Solid. ....                                   | 23                              |        | 2       |
| 143,255                           | 30,534          | 2,518                                  | 114                       | 50                        | 160                  | 210    | 31,161      | 142,628     | .....      | .....    | U. C. ....                                    | 18                              |        | 3       |
| 165,000                           | 4,416           | 4,600                                  | 132                       | 165                       | 70                   | 235    | 169,416     | .....       | 1          | .....    | Solid. ....                                   | .....                           |        | 4       |
| 127,843                           | 2,732           | 1,806                                  | 154                       | .....                     | 233                  | 233    | .....       | 130,575     | .....      | 3        | U. C. ....                                    | 14                              |        | 5       |
| 127,204                           | 1,508           | 1,362                                  | 179                       | .....                     | 136                  | 136    | 1,803       | 126,909     | 1          | 1        | do. ....                                      | .....                           |        | 6       |
| 60,568                            | 32,044          | 1,245                                  | 206                       | .....                     | 122                  | 122    | .....       | 92,612      | .....      | .....    | do. ....                                      | .....                           |        | 7       |
| 58,130                            | 3,650           | 1,443                                  | 150                       | 90                        | 39                   | 129    | 45,452      | 16,328      | 1          | .....    | do. ....                                      | 10                              |        | 8       |
| 52,000                            | 5,498           | 2,305                                  | 182                       | 98                        | 51                   | 149    | 41,987      | 15,511      | .....      | .....    | do. ....                                      | 8                               |        | 9       |
| 32,916                            | 4,276           | 1,296                                  | 101                       | 50                        | 21                   | 71     | 37,192      | .....       | .....      | .....    | Solid. ....                                   | 5                               |        | 10      |
| 37,000                            | .....           | 1,233                                  | 110                       | 50                        | 8                    | 58     | 37,000      | .....       | .....      | .....    | do. ....                                      | 7                               |        | 11      |
| 18,708                            | 4,072           | 1,019                                  | 61                        | 68                        | 30                   | 98     | 22,780      | .....       | .....      | .....    | do. ....                                      | 8                               |        | 12      |
| 12,005                            | 5,997           | 681                                    | 23                        | 137                       | 49                   | 186    | 18,002      | .....       | .....      | .....    | do. ....                                      | 12                              |        | 13      |
| 14,135                            | 2,396           | 659                                    | 133                       | 30                        | 10                   | 40     | 16,531      | .....       | .....      | .....    | do. ....                                      | .....                           |        | 14      |
| 15,202                            | 6,928           | 806                                    | 175                       | 21                        | 6                    | 27     | 22,130      | .....       | .....      | .....    | do. ....                                      | 2                               |        | 15      |
| 10,983                            | 1,000           | 399                                    | 205                       | 17                        | 5                    | 22     | 11,983      | .....       | .....      | 1        | do. ....                                      | 2                               |        | 16      |
| 8,275                             | 1,840           | 429                                    | 113                       | 18                        | 7                    | 25     | 10,115      | .....       | .....      | .....    | do. ....                                      | 3                               |        | 17      |
| 1,231                             | 2,615           | 180                                    | 105                       | 6                         | 4                    | 10     | 3,846       | .....       | .....      | .....    | do. ....                                      | 1                               |        | 18      |
| 2,200                             | 200             | 80                                     | 20                        | 20                        | 5                    | 25     | 2,400       | .....       | .....      | .....    | do. ....                                      | 1                               |        | 19      |
| 1,270,491                         | 124,449         | 29,707                                 | 130                       | 1,120                     | 1,282                | 2,402  | 647,836     | 747,104     | 3          | 6        | .....   | .....                           | 133    |         |
| .....                             | 4,758           | 125                                    | 200                       | 6                         | 2                    | 8      | 4,758       | .....       | 1          | .....    | .....   | .....                           | .....  | 1       |
| .....                             | 3,540           | 140                                    | 200                       | 5                         | 1                    | 6      | 3,540       | .....       | .....      | 1        | .....   | .....                           | .....  | 2       |
| .....                             | 2,500           | 125                                    | 175                       | 1                         | 4                    | 5      | 2,500       | .....       | .....      | .....    | .....   | .....                           | .....  | 3       |
| .....                             | 534             | 28                                     | 60                        | 4                         | 2                    | 6      | 534         | .....       | .....      | .....    | .....   | .....                           | .....  | 4       |
| .....                             | 45              | 2                                      | 30                        | 2                         | 1                    | 3      | 45          | .....       | .....      | .....    | .....   | .....                           | .....  | 5       |
| .....                             | 11,377          | 420                                    | 133                       | 18                        | 10                   | 28     | 11,377      | .....       | 1          | 1        | .....   | .....                           | .....  | .....   |
| 1,270,491                         | 135,826         | 30,127                                 | 131                       | 1,138                     | 1,292                | 2,430  | 659,213     | 747,104     | 4          | 7        | .....   | .....                           | 133    |         |

*Randolph County—*

| Number.                  | Name of operator.                               | Postoffice address of the mines. | Output of mines in tons. |         |               |         |
|--------------------------|---|----------------------------------|--------------------------|---------|---------------|---------|
|                          |   |                                  | Mine run.                | Lump.   | Other grades. | Total.  |
| SHIPPING MINES.          |   |                                  |                          |         |               |         |
| 1                        | Willis C. & M. Co., Goalby No. 6 . . . . .      | Percy . . . . .                  | 152,679                  | 25,800  | 10,300        | 188,779 |
| 2                        | Wilson Bros Coal Co., Eden No. 7 . . . . .      | Sparta . . . . .                 | 16,680                   | 62,161  | 33,471        | 112,312 |
| 3                        | Illinois Fuel Co., No. 4 . . . . .              | do . . . . .                     | 26,348                   | 47,242  | 23,918        | 97,508  |
| 4                        | Moffatt Coal Co., No. 1 . . . . .               | do . . . . .                     | 24,039                   | 38,284  | 27,641        | 89,964  |
| 5                        | Jones Bros. C. & M. Co., Eureka No. 2 . . . . . | Marissa . . . . .                | 2,280                    | 51,636  | 34,424        | 88,340  |
| 6                        | Randolph Co. Coal M. Co. . . . .                | Coulterville . . . . .           | 34,120                   | 10,105  | 10,781        | 55,006  |
| 7                        | Bessemer C. & M. Co., Crystal . . . . .         | Tilden . . . . .                 | 22,779                   | 12,008  | 4,504         | 39,291  |
| 8                        | Boyd Coal & Coke Co., No. 1 . . . . .           | Sparta . . . . .                 | 36,678                   | 1,273   |               | 37,951  |
| 9                        | Bessemer C. & M. Co., Tilden . . . . .          | Tilden . . . . .                 | 4,415                    | 10,873  | 5,023         | 20,311  |
| 10                       | West Mine Coal Co., Consol . . . . .            | Coulterville . . . . .           | 3,006                    | 8,026   | 4,012         | 15,044  |
| Total . . . . .          |   |                                  | 323,024                  | 267,408 | 154,074       | 744,506 |
| LOCAL MINES.             |   |                                  |                          |         |               |         |
| 1                        | J. C. Boyle . . . . .                           | Sparta . . . . .                 | 7,077                    | 3,200   | 3,877         | 14,154  |
| 2                        | J. W. Bixby . . . . .                           | do . . . . .                     |                          | 2,000   | 85            | 2,085   |
| 3                        | E. Jones & Son . . . . .                        | do . . . . .                     |                          | 1,000   | 125           | 1,125   |
| 4                        | Adams Bros . . . . .                            | Willisville . . . . .            | 946                      |         |               | 946     |
| Total . . . . .          |   |                                  | 8,023                    | 6,200   | 4,087         | 18,310  |
| Total—14 mines . . . . . |   |                                  | 331,047                  | 273,608 | 158,161       | 762,816 |

Mines reported for 1911, 14.

Mines in 1912, 14.

*Tenth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 184,915                           | 3,864           | 3,058                                  | 180                       | .....                     | 221                  | 221    | .....       | 188,779     | .....      | .....    | U. C.   | 10                             | 1      |         |
| 109,018                           | 3,294           | 2,875                                  | 232                       | 37                        | 68                   | 105    | 42,740      | 69,572      | 1          | 1        | Both  | 6                              | 2      |         |
| 94,987                            | 2,521           | 1,464                                  | 132                       | 90                        | 60                   | 150    | .....       | 97,508      | 1          | 1        | U. C.   | 18                             | 3      |         |
| 87,064                            | 2,900           | 1,344                                  | 143                       | .....                     | 139                  | 139    | .....       | 89,964      | .....      | .....    | do.   | 19                             | 4      |         |
| 84,958                            | 3,382           | 3,155                                  | 122                       | 95                        | 22                   | 117    | 88,340      | .....       | 1          | 1        | Solid   | 7                              | 5      |         |
| 50,930                            | 4,076           | 2,122                                  | 158                       | 58                        | 19                   | 77     | 55,006      | .....       | .....      | .....    | do.   | 6                              | 6      |         |
| 36,357                            | 2,934           | 1,459                                  | 47                        | 88                        | 33                   | 121    | 39,291      | .....       | 1          | 1        | do.   | 12                             | 7      |         |
| 34,889                            | 3,062           | 1,514                                  | 191                       | 50                        | 20                   | 70     | 37,951      | .....       | .....      | .....    | do.   | 5                              | 8      |         |
| 19,938                            | 373             | 731                                    | 35                        | 60                        | 28                   | 88     | 20,311      | .....       | 1          | 1        | do.   | 10                             | 9      |         |
| 12,971                            | 2,073           | 752                                    | 102                       | 26                        | 13                   | 39     | 15,044      | .....       | .....      | .....    | do.   | 4                              | 10     |         |
| 716,027                           | 28,479          | 18,474                                 | 134                       | 504                       | 623                  | 1,127  | 298,683     | 445,823     | 1          | 5        | .....   | .....                          | 97     |         |
| .....                             | 14,154          | 360                                    | 218                       | 5                         | 2                    | 7      | 14,154      | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 2,085           | 110                                    | 100                       | 4                         | 1                    | 5      | 2,085       | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 1,125           | 120                                    | 300                       | 4                         | .....                | 4      | 1,125       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 946             | 54                                     | 76                        | 4                         | 2                    | 6      | 946         | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 18,310          | 644                                    | 173                       | 17                        | 5                    | 22     | 18,310      | .....       | .....      | .....    | .....   | .....                          | .....  |         |
| 716,027                           | 46,789          | 19,118                                 | 145                       | 521                       | 628                  | 1,149  | 316,993     | 445,823     | 1          | 5        | .....   | .....                          | 97     |         |

*Washington County—*

| Number.         | Name of operator.               | Postoffice address of the mines. | Output of mines in tons. |        |               |         |
|-----------------|---------------------------------|----------------------------------|--------------------------|--------|---------------|---------|
|                 |                                 |                                  | Mine run.                | Lump.  | Other grades. | Total.  |
| SHIPPING MINES. |                                 |                                  |                          |        |               |         |
| 1               | Centralia Coal Co., No. 5 ..... | Centralia .....                  | 141,955                  | 4,693  | 6,313         | 152,961 |
| 2               | Nicholson Coal Co. ....         | Nashville .....                  |                          | 10,705 | 7,137         | 17,842  |
| 3               | Adam Kuhn, DuBois .....         | DuBois .....                     | 2,000                    | 10,090 | 5,280         | 17,280  |
|                 | Total .....                     |                                  | 143,955                  | 25,398 | 18,730        | 188,083 |
| LOCAL MINES.    |                                 |                                  |                          |        |               |         |
| 1               | Pb. Laumbattus .....            | Lenzburg .....                   | 1,800                    |        |               | 1,800   |
|                 | Total—4 mines .....             |                                  | 145,755                  | 25,398 | 18,730        | 189,883 |

Mines reported for 1911, 2.

New mines, 4.

Abandoned mines, 2.

Mines in 1912, 4.

*Shipping mines—recapitulation by*

| Counties.        | Number of mines. | Productions of different grades in tons. |         |         |         |         |        | Total.    | Disposition of output—tons.  |                 |
|------------------|------------------|--|---------|---------|---------|---------|--------|-----------|------------------------------|-----------------|
|                  |                  | Mine run.                                | Lump.   | Egg.    | Nut.    | Pea.    | Slack. |           | Loaded on cars for shipment. | Other purposes. |
| Jackson .....    | 7                | 140,277                                  | 250,230 | 39,574  | 19,447  | 214,295 | 24,034 | 687,857   | 556,732                      | 131,125         |
| Jefferson .....  | 1                | 7,958                                    |         |         |         |         |        | 7,958     | 3,122                        | 4,836           |
| Perry .....      | 19               | 931,189                                  | 178,249 | 57,021  | 68,372  | 133,841 | 26,268 | 1,394,940 | 1,270,491                    | 124,449         |
| Randolph .....   | 10               | 323,024                                  | 267,408 | 17,980  | 11,364  | 114,481 | 10,249 | 744,506   | 716,027                      | 28,479          |
| Washington ..... | 3                | 143,955                                  | 25,398  | 713     | 2,000   | 10,483  | 5,534  | 188,083   | 165,735                      | 22,348          |
| Total .....      | 40               | 1,546,403                                | 721,285 | 115,288 | 101,183 | 473,100 | 66,085 | 3,023,344 | 2,712,107                    | 311,237         |



*Tenth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 148,707                           | 4,254           | 5,448                                  | 83                        | 200                       | 89                   | 289    | 131,961     | 21,000      | .....      | .....    | Solid.....                                    | .....                          | 1      | 1       |
| 6,028                             | 11,814          | 990                                    | 148                       | 50                        | 18                   | 68     | 17,842      | .....       | .....      | .....    | do.....                                       | .....                          | 5      | 2       |
| 11,000                            | 6,280           | 576                                    | 117                       | 45                        | 14                   | 59     | 17,280      | .....       | .....      | .....    | do.....                                       | .....                          | 4      | 3       |
| 165,735                           | 22,348          | 7,014                                  | 116                       | 295                       | 121                  | 416    | 167,083     | 21,000      | .....      | .....    | .....   | .....                          | 10     |         |
| .....                             | 1,800           | 60                                     | 300                       | 2                         | 1                    | 3      | 1,800       | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| 165,735                           | 24,148          | 7,074                                  | 161                       | 297                       | 122                  | 419    | 168,883     | 21,000      | .....      | .....    | .....   | .....                          | 10     |         |

*counties—Tenth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 10,188                                 | 159                       | 536          | 369     | 38    | 128               | 1,071  | 216,659     | 471,198     | 173,242          | 514,615        | .....              |
| 328                                    | 143                       | 20           | 21      | ..... | 4                 | 45     | 7,958       | .....       | 7,958            | .....          | .....              |
| 29,707                                 | 130                       | 1,120        | 1,040   | 33    | 209               | 2,402  | 647,836     | 747,104     | 527,433          | 867,507        | .....              |
| 18,474                                 | 134                       | 504          | 523     | 18    | 82                | 1,127  | 298,683     | 445,823     | 255,943          | 376,251        | 112,312            |
| 7,014                                  | 116                       | 295          | 84      | 6     | 31                | 416    | 167,083     | 21,000      | 188,083          | .....          | .....              |
| 65,711                                 | 135                       | 2,475        | 2,037   | 95    | 454               | 5,061  | 1,338,219   | 1,685,125   | 1,152,659        | 1,758,373      | 112,312            |

*Local mines—recapitulation by*

| Counties.       | Number of mines. | Productions of different grades in tons. |         |         |         |         |        | Total.    | Disposition of out-put—tons. |                 |
|-----------------|------------------|--|---------|---------|---------|---------|--------|-----------|------------------------------|-----------------|
|                 |                  | Mine run.                                | Lump.   | Egg.    | Nut.    | Pea.    | Slack. |           | Loaded on cars for shipment. | Other purposes. |
| Jackson.....    | 14               | 20,364                                   | 12,837  | .....   | .....   | 700     | 2,616  | 36,517    | .....                        | 36,517          |
| Jefferson.....  | 1                | .....                                    | 80      | .....   | .....   | .....   | .....  | 80        | .....                        | 80              |
| Perry.....      | 5                | 7,258                                    | 2,886   | .....   | .....   | 1,040   | 193    | 11,377    | .....                        | 11,377          |
| Randolph.....   | 4                | 8,023                                    | 6,200   | .....   | 85      | .....   | 4,002  | 18,310    | .....                        | 18,310          |
| Washington...   | 1                | 1,800                                    | .....   | .....   | .....   | .....   | .....  | 1,800     | .....                        | 1,800           |
| Total .....     | 25               | 37,445                                   | 22,003  | .....   | 85      | 1,740   | 6,811  | 68,084    | .....                        | 68,084          |
| The District... | 65               | 1,583,848                                | 743,288 | 115,288 | 101,268 | 474,840 | 72,896 | 3,091,428 | 2,712,107                    | 379,321         |

Whole number of mines reported for 1911, 67.

Number of new mines opened during the year, 12.

Number of mines abandoned during the year, 14.

Whole number of mines reported for 1912, 65.

*All mines—recapitulation by*

| Counties.      | Number of mines. | Productions of different grades in tons. |         |         |         |         |        | Total.    | Disposition of out-put—tons. |                 |
|----------------|------------------|--|---------|---------|---------|---------|--------|-----------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.   | Egg.    | Nut.    | Pea.    | Slack. |           | Loaded on cars for shipment. | Other purposes. |
| Jackson.....   | 21               | 160,641                                  | 263,067 | 39,574  | 19,447  | 214,995 | 26,650 | 724,374   | 556,732                      | 167,642         |
| Jefferson..... | 2                | 7,958                                    | 80      | .....   | .....   | .....   | .....  | 8,038     | 3,122                        | 4,916           |
| Perry.....     | 24               | 938,447                                  | 181,135 | 57,021  | 68,372  | 134,881 | 26,461 | 1,406,317 | 1,270,491                    | 135,826         |
| Randolph.....  | 14               | 331,047                                  | 273,608 | 17,980  | 11,449  | 114,481 | 14,251 | 762,816   | 716,027                      | 46,789          |
| Washington...  | 4                | 145,755                                  | 25,398  | 713     | 2,000   | 10,483  | 5,534  | 189,883   | 165,735                      | 24,148          |
| Total .....    | 65               | 1,583,848                                | 743,288 | 115,288 | 101,268 | 474,840 | 72,896 | 3,091,428 | 2,712,107                    | 379,321         |

counties—Tenth District—1912.

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undereut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 966                                    | 146                       | 40           | 24      | 1     | 22                | 87     | 27,936      | 8,581       | .....            | .....          | .....              |
| .....                                  | 50                        | 3            | .....   | ..... | .....             | 3      | 80          | .....       | .....            | .....          | .....              |
| 420                                    | 133                       | 18           | .....   | ..... | 10                | 28     | 11,377      | .....       | .....            | .....          | .....              |
| 644                                    | 173                       | 17           | .....   | ..... | 5                 | 22     | 18,310      | .....       | .....            | .....          | .....              |
| 60                                     | 300                       | 2            | .....   | ..... | 1                 | 3      | 1,800       | .....       | .....            | .....          | .....              |
| 2,090                                  | 150                       | 80           | 24      | 1     | 38                | 143    | 59,503      | 8,581       | .....            | .....          | .....              |
| 67,801                                 | 141                       | 2,555        | 2,061   | 96    | 492               | 5,204  | 1,397,722   | 1,693,706   | 1,152,659        | 1,758,373      | 112,312            |

counties—Tenth District—1912.

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undereut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 11,154                                 | 150                       | 576          | 393     | 39    | 150               | 1,158  | 244,595     | 479,779     | .....            | .....          | .....              |
| 328                                    | 96                        | 23           | 21      | ..... | 4                 | 48     | 8,038       | .....       | .....            | .....          | .....              |
| 30,127                                 | 131                       | 1,138        | 1,040   | 33    | 219               | 2,430  | 659,213     | 747,104     | .....            | .....          | .....              |
| 19,118                                 | 145                       | 521          | 523     | 18    | 87                | 1,149  | 316,993     | 445,823     | .....            | .....          | .....              |
| 7,074                                  | 161                       | 297          | 84      | 6     | 32                | 419    | 168,883     | 21,000      | .....            | .....          | .....              |
| 67,801                                 | 141                       | 2,555        | 2,061   | 96    | 492               | 5,204  | 1,397,722   | 1,692,706   | .....            | .....          | .....              |

## ELEVENTH INSPECTION DISTRICT—1912.

### ANNUAL REPORT.

Counties—Franklin, Gallatin, Saline, White.

FRANK ROSBOTTOM, *Inspector*, Benton.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Franklin, Gallatin, Saline and White.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|   |           |
|---|-----------|
| Number of counties producing coal.....                | 4         |
| Number of shipping mines.....                         | 38        |
| Number of local mines.....                            | 19        |
| Number of new or reopened mines.....                  | 4         |
| Number of closed or abandoned mines.....              | 6         |
| Number of miners.....                                 | 1,010     |
| Others underground, men.....                          | 7,309     |
| Boys underground.....                                 | 161       |
| Boys above ground.....                                | 13        |
| Others above ground.....                              | 884       |
| Total number of employees.....                        | 9,377     |
| Total tons of coal produced.....                      | 8,220,784 |
| Days of active operation, all mines.....              | 179       |
| Kegs of powder used for blasting coal.....            | 80,969    |
| Tons of coal shipped.....                             | 7,876,035 |
| Tons supplied to locomotives.....                     | 47,656    |
| Tons sold to local trade.....                         | 111,133   |
| Tons consumed and wasted at the mines.....            | 185,960   |
| Number of fatal accidents.....                        | 40        |
| Number of non-fatal accidents.....                    | 123       |
| Number of employees to each fatal accident.....       | 234       |
| Number of employees to each non-fatal accident.....   | 76        |
| Tons of coal produced to each fatal accident.....     | 205,520   |
| Tons of coal produced to each non-fatal accident..... | 66,836    |
| Ratio of fatal accidents per 1,000 employees.....     | 4.27      |

The following table shows the output for the years ended June 30, 1911 and 1912, by counties with the increase.

| Counties.     | Total output—tons. |           | Increase. |
|---------------|--------------------|-----------|-----------|
|               | 1911.              | 1912.     |           |
| Franklin..... | 2,356,439          | 4,026,815 | 1,670,376 |
| Gallatin..... | 65,106             | 73,620    | 8,514     |
| Saline.....   | 3,232,736          | 4,088,575 | 855,839   |
| White.....    | 29,271             | 31,774    | 2,503     |
| Total.....    | 5,683,552          | 8,220,784 | 2,537,232 |

## ABANDONED MINES.

Six mines heretofore reported as local mines have been abandoned.

## NEW MINES.

The second shaft in the district to be completed under the new law, requiring them to be constructed of fireproof material, was sunk by the United Coal Mining Company at Buckner, Franklin County, and is known as its No. 2 mine.

The work of sinking the shaft for this mine was begun Oct. 25, 1910. This work was made unusually difficult by the reason of the fact that at about 35 feet from the surface something like 12 feet to 15 feet of quick sand was encountered which necessitated the use of interlocking steel channel bars. Coal was reached May 28, 1911.

The depth of the main shaft is 447 feet, and is 11 feet by 19 feet in dimension. It is curbed in the usual way with 3-inch yellow pine timbers, but a solid concrete wall was used for 35 feet down from the surface and 35 feet from the bottom. Steel buntons were used in both shafts and the sides were lined between the concrete with galvanized iron.

The escapement shaft is built in the same way and is equipped with a man and material hoist, the cage being 4 feet 6 inches by 4 feet 2 inches. The air chambers are 10 feet 6 inches by 11 feet. The steps are made of steel.

Air is furnished to the mine by means of a Capelle fan, 13 feet 6 inches in diameter by 6 feet, with a capacity of 400,000 cubic feet per minute, against 3-inch water gauge.

The mine is equipped with electric haulage and will eventually use fifteen haulage motors, including gathering motors, and about twenty-five chain breast undercutting machines of Goodman Manufacturing Company's make.

The bottom is equipped with Phillips' automatic cager, and electricity will be used for pumping and lighting the mine. The overcasts are built of concrete and steel "I" beams and all stoppages are to be made permanent.

The anticipated output is 4,000 tons per day. The mine will be developed on the panel system and will use mine cars of 4-ton capacity, running on 50 pound iron in the main entry, 40 pound in the cross entries and 30 pound in the rooms.

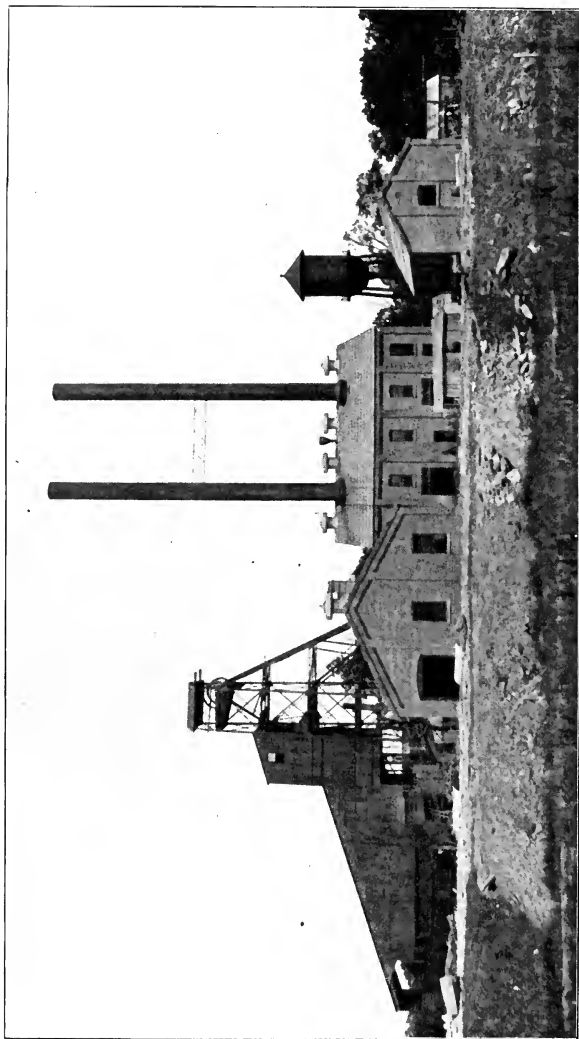
## LOCATION, RAILROAD CONNECTION, ETC.

This mine is located about two miles east and south of No. 1 mine, which is a mile east of Christopher. This location was selected; first, because it placed the mine in the center of the field which is to be developed; and, second, because such location made it convenient to secure railroad connection with both the Illinois Central and the Chicago, Burlington and Quincy railroads.

The tracks forming the working yard for this mine, run in an eastwardly and westwardly direction, with the empty storage tracts on the west. The connection from the Illinois Central is made by a spur coming in from the north which forms into a "Y" connecting to the empty and loaded yards. The C., B. & Q. comes in from the south and connects in the same manner, thus forming a double "Y." The mining plant is located within this "Y" and therefore has a unique arrangement, not only as regards the receiving of empties and the taking out of loads, but also for the receiving of all mine supplies, etc.

Empty cars from the storage tracks are brought down over the railroad track scale and weighed before being delivered to the tracks under the tipple. After being loaded, they are passed out over another railroad track scale, and all loads are thus weighed on a single scale before being delivered to the storage yard.

The entire plant was designed and built by Roberts and Schaefer Co., McCormick bldg., Chicago, Ill. Each unit of the plant forming to complete the works; both the main shaft and the air shaft and the entire under-



United Coal Mining Co.'s No. 2 Mine, Buckner, Franklin County.

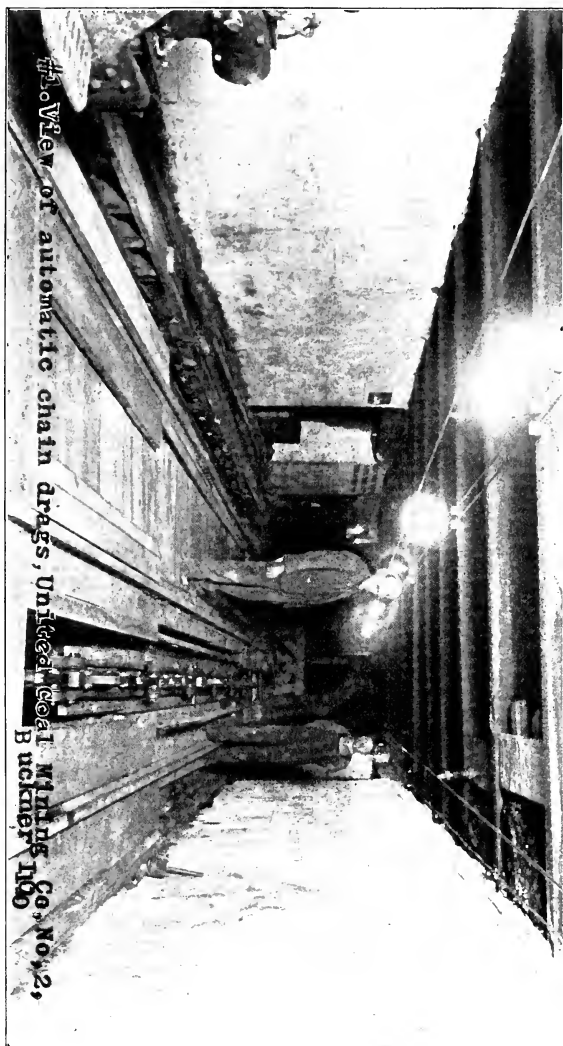


Fig. 1. View of automatic chain drags, United Coal Mining Co., No. 2,  
Buckner, Mo.

ground arrangement, was very carefully planned, not only to meet the large capacity above named, but to enable this amount of coal to be hoisted, screened and marketed in the best possible condition and at the least expense.

The top works consist of a four-track steel tippie, complete with all the weighing, screening and loading equipment; a combined power plant including hoisting engines, electrical equipment and boiler plant; boiler house, coal conveyor, including overhead steel storage tanks and steel spouts for delivering coal to automatic stokers; ash handling equipment, including ash tunnel under the boilers, steel ash car and hoist for delivering ashes into hopper located outside of building; a complete repair shop including blacksmith, machine and car repair departments; a supply house containing store room, oil room and bookkeeper's office; an auxiliary hoisting plant in a separate compartment of the air shaft for hoisting men and materials during working hours; a ventilating plant consisting of a medium speed steel plate, steel housed fan, direct connected to a four-valve engine all housed in concrete; a double fireproof and weather proof power house; a complete water system consisting of reservoir, electric driven pump, cast iron water lines, elevated steel tank and distributing system; complete electric lighting system and a small office for mine superintendent and clerk located near railroad scale.

This entire plant, excepting the office, is of concrete, steel and brick construction, and therefore, is absolutely fireproof, and is as near permanent as the present art permits.

The accompanying illustrations show some of the principal parts of the plant, but as the machinery equipment used in this plant is of a much higher grade than it has been customary to install in mining plants, a brief description of this equipment will doubtless be of interest.

#### TIPPLE EQUIPMENT.

The tippie is provided with the standard weight hopper arrangement for weighing mine-run coal, but this coal, instead of being dumped on to shaker screens in pit car quantities, which in this case amounts to four tons, is dumped into a receiving hopper from which the coal is fed regularly onto the screens by a reciprocating feeder. The shaker screens are of a new type which enable mine-run coal to be made on the lump track without the use of cover plates. The screens are of the roller type and are 10 feet wide, the upper screen having a double deck for making both slack and nut coal, and the lower screen a single deck for taking the egg out of the lump coal. A small hopper is placed beneath the screens over each track to receive a small amount of coal which enables cars to be changed beneath the tippie without interruption of hoisting and dumping coal. This hopper over the egg and nut tracks contains lip screens for the rescreening of coal before being loaded out. The slack taken out of the egg and lump coal is carried back by a small conveyor to the slack car. The coal on the track is delivered into the cars by the use of end loading chutes which can be raised and lowered so as to deliver the coal into the cars with the least breakage possible.

#### POWER PLANT MACHINERY.

The hoisting engines are a pair of 28 by 48 feet direct connected to a pair of 8 feet diameter drums. These engines have steam brake, steam reverse and all other modern appliances for safety and convenience in operating.

The present electrical equipment consists of one, 250 K. W. generator direct connected to a 375 horse power, four valve engine and small lighting unit for use when the large machine is not running.

The six panel switchboard contains a full complement of Wattmeters, ammeters, volt meters, circuit breakers, rheostats for field, control for the generators and a complete set of switches to care for the various circuits, such as underground, tippie, fan, lighting, etc. The board also carries on one independent panel, a set of steam recording instruments.



The boiler plant consists of four 335 horse power water tube boilers set up in batteries of two, with separate steel stack for each battery. These boilers are finished with "Model" automatic stokers by which it is fired automatically from the steel bunkers overhead.

The usual feed water heaters, feed water pumps, etc., were also installed, the latter being in duplicate, cross connected to enable either pump to supply the boilers while the other pump is being repaired.

The water supply is measured by a meter which, with the other equipment above mentioned, permitted complete boiler tests being made; and, this company stands ready at all times to make such tests to show its customers the excellent steaming qualities of this coal.

#### AUXILIARY HOISTING PLANT.

This consists of a small pair of direct connected hoisting engines operating a platform cage working in a separate compartment of the air shaft. The object of installing this separate hoist was to avoid any interruption in hoisting at the main shaft during working hours. When it is necessary, during such hours, to raise or lower men or materials, it will be done with this auxiliary hoist.

#### VENTILATING PLANT.

The air is furnished by a direct blowing, reversible, double inlet, medium speed, steel plate fan which is direct connected to a high grade, four-valve engine. The fan and housing for same, including connection to air shaft, are entirely of steel. The housing for the side drifts and the engine room is all of reinforced concrete. The entire construction is therefore both permanent and fireproof.

#### WATER SUPPLY.

A word regarding the water supply for this mine may be of interest, as the pump at the reservoir is electrically driven and electrically controlled by a float switch in the water tank near the boiler plant. The connection from this pump to the tank is a 6-inch cast iron line, and the steel tank holds 30,000 gallons and is supported on a steel structure. This unit of the plant is therefore in keeping with the high grade equipment used throughout.

In addition to the above, three mines of the local class are listed in this report as new mines.

#### CHANGE IN NAME.

The Brazil Block Coal Company's mines No. 11 and No. 18, have passed into the hands of W. C. Niblack, receiver of the Dering Coal Co.

The Wilmington Star Mining Co.'s No. 8 has changed to Ohio Valley Mining Company No. 8.

The Harrisburg Big Muddy Coal Company No. 12 and No. 14, also Harrisburg, Saline County Coal Co., No. 15, have changed to O'Gara Coal Co., Nos. 12, 14 and 15.

The Galatia Coal Company has changed to St. Louis Coal and Coke Company.

#### MINE FIRE.

As a result of a fire of mysterious origin, the W. P. Rend Colliers Company's recleaning plant was destroyed June 18, 1911. The structure was a short distance from the main shaft, and contained about 200 tons of coal. The box car loader was also in danger of being destroyed when the fire was noticed, but by being stationed on wheels to fit the railroad track it was speedily removed.

## DESTROYED BY CYCLONE.

The Southern Illinois Coal and Coke Company suffered the loss of their engine room and boiler house by a cyclone that came from the northwest on Sunday evening, April 21. The storm struck the west end of the boiler room and threw the roof on the top of the engine room, completely smashing it, also tearing out the sides of the latter building. The steel tippie and the machine shop was not damaged. The boiler and engine rooms were constructed largely of pine timbers covered with corrugated steel. The machinery was very little damaged, the main steam line was thrown out of line about two feet, and some oil cups on the hoisting engines broken. No damage was done to the boilers or compressors.

## IMPROVEMENTS.

The Sesser Coal Company has installed a new pair of first motion hoisting engines 28 by 48, built by the Danville Foundry and Manufacturing Company, a rescreeing plant with a bin capacity of 820 tons, built by Garcia & Allen Construction Company, a 50-foot Fairbanks railroad track scale, and one new boiler 6 feet diameter, 18 feet long with 72-4 inch flues, built by the Atlas Engine Works.

The United Coal Mining Company, No. 1, has added to its haulage system four 6-ton gathering motors. Twelve mules have been taken out of the mine with the introduction of the motors.

W. C. Niblack, receiver of Dering Coal Co.'s mine, No. 11, has installed two new Bond cages, one air compressor 18 by 20 feet, one hundred new mine cars, capacity  $2\frac{1}{2}$  tons, which is a great improvement to the plant. This company has also made the following improvements at mine No. 18: Installed new feed pump in the boiler room, one air driven hammer in blacksmith shop, also drill and lathe and one 125 K. W. generator for lighting purposes.

The Carroll and Franklin Coal Company has added two new Bond cages.

Hart-Williams Coal Company has installed one 6-ton Morgan Gardener gathering motor, which reduces the number of mules from 30 to 16.

Zeigler District Colliery Company has installed six Jeffery electric mining machines, one 6-ton gathering motor, General Electric Co., also one hundred new mine cars, with a capacity of three tons each.

The West Frankfort Coal Company has added to its plant a pair of new first motion Litchfield hoisting engines, size 24 by 42 feet, with an 8-foot diameter drum; one new 150 horsepower boiler, 6 feet in diameter, 18 feet long, with seventy 3-inch flues; two new H. and H. cages; a shaker screen 9 feet by 40 feet, with scales 15 ton capacity; one 250 K. W. generator Morgan-Gardener type; two Morgan-Gardener 7-foot electric chain machines; and twenty-one new mine cars, which make this an up-to-date plant.

The W. P. Rend Colliers Company has installed a new steel recleaning plant in the place of the one destroyed by fire, which has a storage capacity of 400 tons. The revolving screen is 7 feet in diameter and 27 feet long. The screenings are taken to the revolving screen by a bucket elevator, which has a capacity of 1,000 tons in 8 hours. The company has also added to its equipment one 10-ton Morgan-Gardener electric locomotive and one Morgan-Gardener 6-foot undercut electric chain machine.

The Franklin Coal & Coke Company of Royalton has added to its equipment the following:

One 250 H. P. horizontal water tube boiler; 136 4-inch tubes; one Ridgeway dynamo, 200 K. W., connected direct to a 350 H. P. Ridgeway engine 20 by 22; three Goodman electric motors, two 5-ton and one 8-ton; one hundred 3-ton mine cars; three electric chain breast mining machines of the Goodman type, and one short wall electric mining machine of the Sullivan type.

The Southern Illinois Coal & Coke Company has rebuilt its engine room and boiler house in the place of the old one that was destroyed by a cyclone on Sunday, April 21, 1912.

The O'Gara Coal Company has added the following equipment:

Mine No. 1, one 6-ton electric motor.

Mine No. 3, one new boiler, 150 H. P., 6 feet diameter and 72 feet 4-inch flues.

Mine No. 7, one 6-ton electric motor.

Mine No. 8, new shaker screens.

Mine No. 9, one 15-ton electric motor.

Mine No. 11, one 6-ton electric motor and a new boiler, 150 H. P., 6 feet diameter, 18 feet long, with 72 feet 4-inch flues.

Mine No. 12, one 6-ton electric motor.

Mine No. 14, new shaker screens and fan.

Mine No. 15, installed steam car lift at bottom of the shaft, one 6-ton electric motor and one hundred new mine cars.

The Wasson Coal Company has installed three new electric chain breast mining machines of the Morgan-Gardener type.

The Ohio Valley Mining Company has erected at mine No. 8 a new rescreening plant, built by the Wisconsin Bridge & Iron Company. The plant receives all coal under a 3-inch preparation, which is carried to a height of 60 feet over a 36-inch belt at an angle of 22 degrees, at a distance of 150 feet, the coal separating onto two shaker screens, 5 feet by 17 feet. These screens run at 160 revolutions per minute and make 5 grades of coal, viz: No. 1 nut, No. 2 nut, No. 3 nut, No. 4 nut, and No. 5 slack. The bins are located conveniently to load coal on the C. & E. I., or C., B. & Q. Railroad, and hold 160 tons each, making a storage capacity of 1,000 tons. Each bin has four spirals or slate pickers, which pick all impurities from the coal and deposit the same into an 18-inch conveyor belt and is delivered into the refuse, the coal passing into its respective bin. This plant will rescreen 2,000 tons in 8 hours and is built of fireproof material, and is electrically driven by a 75 H. P. motor. This company has added, also, two Jeffery electric mining machines and two John O'Brien water tubular boilers, 150 H. P., 6 feet by 18 feet with 72 feet 4-inch flues.

#### FATAL ACCIDENTS.

July 17, 1911, N. Lawrence, driver, aged 35 years, married, employed at W. P. Rend Collieries Co.'s No. 1 mine, Rend, Franklin County, was killed. While his mule was turning round, the tail chain caught on a prop pulling it out, letting about two tons of top coal and slate down on him, killing him instantly. He leaves a widow and four children.

July 27, 1911, Robert Hamilton, loader, aged 23 years, married, and George Corbett, loader, aged 24 years, single, were killed in O'Gara No. 9 mine, Harrisburg, Saline County, some time after 3:00 o'clock in the morning. At that time the mine examiner reached their working place and found them preparing to fire their shots. They were not missed until men going into their places the next morning found them lying under the coal. Apparently, they had tamped and fired two shots in the entry and two in the cross cut at the same time. Thinking all the shots had exploded they returned, when the left hand shot in the cross cut, which had hung fire, went off and they were buried beneath the coal. Hamilton leaves a widow.

August 3, 1911, James Mattingley, machine helper, aged 28 years, single, was killed by falling slate in the O'Gara Coal Co.'s No. 9 mine, Harrisburg, Saline County. The machine was just finishing the last cut when a piece of slate fell.

August 5, 1911, William Macher, a driver, aged 30 years, married, employed in the W. P. Rend Collieries Co.'s mine, Rend, Franklin County, was killed by being crushed between a pit car and the coal rib. Deceased was coming out of the second northwest to the first northeast and apparently got off the car on the wrong side, as on the opposite side of the car there was from 6 feet to 9 feet of space. No one saw him when the accident occurred and he was dead when found. He leaves a widow.

August 9, 1911, Evert Baker, loader, aged 26 years, married, employed in the O'Gara mine No. 4, Harrisburg, Saline County, was killed by falling

coal at the face of his working place. Deceased was loading his car near a large block of loose coal and concluded to push it away and roll the block over. He got between the car and the coal when the car started forward and the block of coal fell and crushed him. He leaves a widow and one child.

August 10, 1911, Steve Begosh, track layer, aged 38 years, single, employed at the Possum Ridge mine of the Southern Illinois Coal Company, Franklin County went into room No. 5, first south entry to lay track. There was a conspicuous mark at the mouth of the room which said, "Keep out, bad top," but he went in and slate fell on him breaking his leg and causing other injuries from which he died five hours later.

September 1, 1911, Alex. Murphy, trapper, aged 17 years, single, lost his life in the Hart-Williams mine, Benton, Franklin County, by falling coal.

September 6, 1911, Martin Long, trip rider, aged 19 years, single, employed at O'Gara Coal Co.'s mine No. 10, Eldorado, Saline County, was killed by falling off a moving motor on which he was riding. His left leg was run over and had to be amputated. This was on September 5, and he died the next morning.

October 2, 1911, Paul Wiltmuth, track man, aged 21 years, single, employed at the Wasson Coal Co.'s mine, Wasson, Saline County, was killed by a trip of loaded cars which were started down grade from the force of a gas explosion. Deceased was ordered to help some track layers who were working in a cut-off between the first and second northwest entries. Instead of stopping at the cutoff he continued on down the entry and had gone but a short distance when his open light ignited a body of gas. He either ran back, or was blown back, to a point where three cars, which had been started down grade by the force of the explosion, ran over and killed him.

October 3, 1911, Joe Bazulis, miner, aged 39 years, married, working at O'Gara mine No. 9, Harrisburg, Saline County, was on his way out to the bottom at quitting time when he was run over by pit cars and killed. The accident occurred September 21. He leaves a widow and six children.

October 23, 1911, Charles Premas, miner, aged 42 years, married, working at O'Gara Coal Company's mine No. 1, was killed by falling coal. He leaves a widow and six children.

October 23, 1911, Daniel Austin, miner, aged 18 years, single; Frank Steckton, miner, aged 28 years, single; Alfred Bowen, miner, aged 30 years, married; Samuel Barnaby, miner, aged 36 years, married; Joseph Austin, miner, aged 56 years, married; Wm. K. Stringer, miner, aged 22 years, married; Oscar Chick Parks, machine runner, aged 31 years, married; George Edwards, miner, aged 28 years, married, lost their lives while working at O'Gara Coal Company's mine No. 9, Harrisburg, Saline County. Mine No. 9 and mine No. 4 are connected at the face of the main north entry of mine No. 9. No. 4 mine has been stopped for repairs in the main shaft, the shaft being completely blocked for some time, and had been ventilated with a current from No. 3 mine. It seems as though the section of No. 4 mine nearest No. 9 mine had not been sufficiently ventilated. These men were working near the connection of No. 9 and No. 4 when an explosion occurred, blowing the door down between the two mines, and allowing afterdamp to rush onto them causing their death by suffocation. Alfred Bowen leaves a widow and one child; Samuel Barnaby leaves a widow and three children; Joseph Austin leaves a widow and one child; William K. Stringer leaves a widow and two children; Oscar C. Parks leaves a widow and one child; George Edwards leaves a widow and one child; Daniel Austin and Frank Steckton were both single. Daniel Austin was the son of Joseph Austin and this accident took both father and son from the family.

October 24, 1911, Edward Edwards, miner, aged 38 years, married, and Robert A. Dunn, miner, aged 32 years, married, working at the St. Louis Coal & Coke Co.'s mine, Galatia, Saline County, were killed at the face of their room by a fall of slate. They were pulling down some top coal and, while working, the weight swung the props and the fall caught them before they could get in the clear. Each man leaves a widow and two children.

October 26, 1911, George Myers, driver, aged 23 years, single, employed at O'Gara Coal Company's mine No. 11, Eldorado, Saline County, was walking along the side of a car when a large piece of rock fell and crushed him down, causing his death.

October 26, 1911, Joseph Chance, laborer, aged 41 years, married, working at the No. 18 mine of the Dering Coal Co., West Frankfort, Franklin County, was switching empty cars at steam lift, when an empty car was about half way on, the steam lever was opened and the lift raised up, raising the car and leaving it standing on end. He seemed to have fallen in front of the car, when it fell back on him injuring him internally and causing his death the same day. He leaves a widow and six children.

October 27, 1911, Fred Phillips, driver, aged 21 years, single, working in the Wasson Coal Co.'s mine, Harrisburg, Saline County, was killed by falling on machine wire. The deceased was coming in on the parting and it seems that he intended to couple the car to the rest of the trip, when he either stumbled or fell onto a machine wire, striking on his chin. He was between two cars, an elbow on each car, with his chin on the live wire, when he was found, dead, by a miner.

November 8, 1911, Ben Sampson, machine runner, aged 35 years, married, employed at W. P. Rend Collieries Company's mine, Rend, Franklin County, was killed. Deceased was cutting a room, which was seven runs wide, and while cutting the last run, the machine became charged, and he fell on a skid, which was under the machine. Before his partner could get the cable disconnected he was dead. He leaves a widow and two children.

November 9, 1911, Joseph Karpinsky, miner, aged 35 years, married, employed at O'Gara Coal Co.'s mine No. 9, Dorrisville, Saline County, was loading a car at the face of his room when the draw slate gave away, falling on his head and shoulders, crushing him so that he died from the effects of the injury November 20. He leaves a widow and three children.

December 9, 1911, Jake Skringer, trip rider, aged 35 years, married, employed at the Bell and Zoller Mining Company's mine, Zeigler, Franklin County, was killed while riding on a motor with a motor man. Deceased was coming off an entry with a 10 car trip. Just before coming to the curve the motor jumped the track and swung about half way around, catching and crushing him, causing his death instantly. He leaves a widow and one child.

January 4, 1912, Mike Christmick, trapper, aged 26 years, single, was killed at No. 1 mine of the Bell and Zoller Mining Company, Zeigler, Franklin County. Deceased was trapping at mine door, and opened the door for the motor to go through. The trip had broken and after five cars and motor had gone through, deceased went to shut the door when the balance of the trip came running into the closed door and caught him, crushing both his legs. He was taken to a hospital where he died three hours later.

January 8, 1912, Joe Boddesh, miner, aged 35 years, married, was killed in the Zeigler District Colliery Company's mine No. 1, Christopher, Franklin County. Deceased was pulling down top coal when a large mass fell breaking his back and causing his death one hour later. He leaves a widow and five children.

January 17, 1912, John Bennett, miner, aged 40 years, married, employed at mine No. 9, of the O'Gara Coal Company, Harrisburg, Saline County, was struck by a piece of slate 2½ feet by 6 feet by 4 inches and injured so that he died in fifteen minutes. He leaves a widow and three children.

January 25, 1912, Joseph Harvey, timberman, aged 30 years, married, employed at mine No. 14 of O'Gara Coal Company, Ledford, Saline County, was killed by a fall of rock. Deceased was sent to take down some loose rock and while pulling it down a large piece fell on the lower part of his body crushing him so that he died a short time after. He leaves a widow.

February 7, 1912, Charles Mangel, machine helper, aged 35 years, single, lost his life in mine No. 9 of the O'Gara Coal Company, Harrisburg, Saline County, by falling coal.

February 28, 1912, John Jenkins, miner, aged 43 years, married, was killed by pit cars in the Saline County Coal Co.'s No. 2 mine, Ledford, Saline County. He leaves a widow and two children.

March 9, 1912, Robert Lanzenni, timberman, aged 33 years, married, working at Sesser Coal Co.'s mine, Sesser, Franklin County, was cleaning up a fall, which had occurred the day before. While he was working a large piece of rock broke loose and fell on him, killing him instantly. He leaves a widow and two children.

May 9, 1912, Henry Stevens, laborer, aged 33 years, married, was killed while coupling railroad cars at the Harrisburg Southern Coal Co.'s mine, Grayson, Saline County. An empty car stood about 50 feet below the tippie, when a loaded car was turned loose, which struck the empty one but failed to couple. The deceased stepped between the two cars to adjust the coupling lever, and, just as he stepped back, the cars came together and caught him between the couplings, crushing him so that he died about one hour and twenty minutes later. He leaves a widow.

May 21, 1912, Conrad Ackerman, miner, aged 45 years, married, working at Harrisburg-Southern Coal Co.'s mine, Grayson, Saline County, was killed by falling rock. The deceased was loading a car of coal when a piece of rock 10 feet long, 4 feet wide and 16 inches thick fell on him, crushing him and causing his death in about 8 hours. He leaves a widow and two children.

May 23, 1912, George Goben, machine man, aged 32 years, married, employed at mine No. 3 of the O'Gara Coal Company, Harrisburg, Saline County, was killed by falling coal. He leaves a widow and two children.

June 8, 1912, Joseph Romanski, miner, aged 35 years, married, employed at the Mitchell mine of the Franklin Coal and Coke Company, Royalton, Franklin County, was killed by a fall of rock. The deceased had been loading a car with coal from beneath a large piece of rock, which had fallen the night before on his coal pile. The rock was 20 feet by 10 feet and 14 inches thick. When he had gotten a distance under it, a large piece broke off and fell on him and killed him instantly. He leaves a widow and one child.

June 10, 1912, Giocone Candora, miner, aged 24 years, single, was killed while working at the United Coal Mining Company's mine, Christopher, Franklin County. The deceased had loaded a car and pushed it out. He then went back into his room and a large piece of slate fell on him, killing him instantly.

Respectfully submitted,

FRANK ROSEBOTTOM.

*State Inspector of Mines, Eleventh District, Benton, Ill.*

*Fatal casualties—Eleventh District—June 30, 1912.*

| Date.   | Name.                 | Age.       | Occupation.         | Residence.         | Married. | Single. | Widow. | Children. | Dependents. | Cause of death.    |
|---------|-----------------------|------------|---------------------|--------------------|----------|---------|--------|-----------|-------------|--------------------|
| 1911.   |                       |            |                     |                    |          |         |        |           |             |                    |
| July 17 | N. Lawrence.....      | 35         | Driver.....         | Cardiff.....       | 1        | 1       | 4      | 5         |             | Falling slate..... |
| 27      | Robt. Hamilton.....   | 23         | Loader.....         | Harrisburg.....    | 1        | 1       | 1      | 1         |             | Falling coal.....  |
| 27      | George Corbett.....   | 24         | do.....             | do.....            | 1        | 1       | 1      | 1         |             | do.....            |
| Aug. 3  | James Mattingley..... | 28         | Machine helper..... | Dorrisville.....   | 1        | 1       | 1      | 1         |             | Falling slate..... |
| 5       | William Macher.....   | 30         | Driver.....         | Marissa.....       | 1        | 1       | 1      | 1         |             | Pit car.....       |
| 9       | Everet Baker.....     | 26         | Loader.....         | Harrisburg.....    | 1        | 1       | 1      | 2         |             | Falling coal.....  |
| 10      | Steve Begosh.....     | 38         | Trackman.....       | Freeman.....       | 1        | 1       | 1      | 1         |             | Falling slate..... |
| Sept. 1 | Alex Murphy.....      | 17         | Trapper.....        | Benton.....        | 1        | 1       | 1      | 1         |             | Falling coal.....  |
| 6       | Martin Long.....      | 19         | Trip rider.....     | Eldorado.....      | 1        | 1       | 1      | 1         |             | Pit car.....       |
| Oct. 2  | Paul Wiltmuth.....    | 21         | Trackman.....       | Harrisburg.....    | 1        | 1       | 1      | 1         |             | do.....            |
| 3       | Joe Bazulis.....      | 39         | Miner.....          | Dorrisville.....   | 1        | 1       | 6      | 7         |             | do.....            |
| 23      | Chas. Premas.....     | 42         | do.....             | Muddy.....         | 1        | 1       | 6      | 7         |             | Falling coal.....  |
| 23      | Oscar Parks.....      | 31         | Machine runner..... | Harrisburg.....    | 1        | 1       | 1      | 1         |             | Asphyxiated.....   |
| 23      | Joe Austin.....       | 56         | Loader.....         | do.....            | 1        | 1       | 1      | 1         |             | do.....            |
| 23      | Wm. K. Stringer.....  | 22         | do.....             | do.....            | 1        | 1       | 1      | 2         | 3           | do.....            |
| 23      | Frank Steckston.....  | 28         | do.....             | do.....            | 1        | 1       | 1      | 1         |             | do.....            |
| 23      | Frank Barnaby.....    | 26         | do.....             | do.....            | 1        | 1       | 3      | 4         |             | do.....            |
| 23      | Geo. Edwards.....     | Miner..... | do.....             | do.....            | 1        | 1       | 1      | 2         |             | do.....            |
| 23      | Dan Austin.....       | 18         | do.....             | do.....            | 1        | 1       | 1      | 1         |             | do.....            |
| 23      | Alfred Bowen.....     | 30         | do.....             | do.....            | 1        | 1       | 1      | 2         |             | do.....            |
| 24      | Edward Edwards.....   | 38         | do.....             | Eldorado.....      | 1        | 1       | 2      | 3         |             | Falling slate..... |
| 24      | Robt. A. Dunn.....    | 32         | do.....             | Galatia.....       | 1        | 1       | 2      | 3         |             | do.....            |
| 24      | Joseph Chance.....    | 41         | Laborer.....        | W. Frankfort.....  | 1        | 1       | 6      | 7         |             | Pit car.....       |
| 26      | George Meyers.....    | 23         | Driver.....         | Eldorado.....      | 1        | 1       | 1      | 1         |             | Falling rock.....  |
| 27      | Fred Philips.....     | 21         | do.....             | Athens, Ohio.....  | 1        | 1       | 1      | 1         |             | Electrocuted.....  |
| Nov. 8  | Ben Simpson.....      | 35         | Machine runner..... | Virden.....        | 1        | 1       | 2      | 3         |             | do.....            |
| 20      | Joe Karpinsky.....    | 35         | Miner.....          | Dorrisville.....   | 1        | 1       | 3      | 4         |             | Falling slate..... |
| Dec. 9  | Jake Shringer.....    | 35         | Trip rider.....     | Zeigler.....       | 1        | 1       | 1      | 2         |             | Motor.....         |
| 1912.   |                       |            |                     |                    |          |         |        |           |             |                    |
| Jan. 4  | Mike Christnuck.....  | 26         | Trapper.....        | do.....            | 1        | 1       | 1      | 1         |             | Pit car.....       |
| 8       | Joe Boddesk.....      | 35         | Miner.....          | Christopher.....   | 1        | 1       | 5      | 6         |             | Falling coal.....  |
| 17      | John Bennett.....     | 40         | do.....             | Harrisburg.....    | 1        | 1       | 3      | 4         |             | Falling slate..... |
| 25      | Joseph Harvey.....    | 30         | Timberman.....      | Ledford.....       | 1        | 1       | 1      | 1         |             | do.....            |
| Feb. 5  | Chas. Mangel.....     | 35         | Machine helper..... | Harrisburg.....    | 1        | 1       | 1      | 1         |             | Falling coal.....  |
| 28      | John Jenkins.....     | 43         | Miner.....          | Carrier Mills..... | 1        | 1       | 2      | 3         |             | Pit car.....       |
| Mar. 9  | Robt. Lanzenni.....   | 33         | Timberman.....      | Sesser.....        | 1        | 1       | 2      | 3         |             | Falling rock.....  |
| May 21  | Henry Stevens.....    | 33         | Laborer.....        | Eldorado.....      | 1        | 1       | 1      | 1         |             | Railroad car.....  |
| 21      | Conrad Ackerman.....  | 45         | Miner.....          | Duquoin.....       | 1        | 1       | 2      | 3         |             | Falling rock.....  |
| 23      | George Goben.....     | 32         | Machine runner..... | Harrisburg.....    | 1        | 1       | 2      | 3         |             | Falling coal.....  |
| June 8  | Joseph Romanski.....  | 35         | Miner.....          | Royalton.....      | 1        | 1       | 1      | 2         |             | Falling slate..... |
| 10      | Giocone Candora.....  | 24         | do.....             | Christopher.....   | 1        | 1       | 1      | 1         |             | do.....            |
|         | Total.....            |            |                     |                    | 27       | 13      | 27     | 58        | 84          |                    |

*Recapitulation of fatal accidents—Eleventh District—1912.*

| Residence.          | No. | Occupation.          | No. | Cause of accident. | No. | Colliery.              | No. |
|---------------------|-----|----------------------|-----|--------------------|-----|------------------------|-----|
| Athens, Ohio.....   | 1   | Drivers.....         | 4   | Asphyxiated.....   | 8   | Bell & Zollar.....     | 2   |
| Benton.....         | 1   | Laborers.....        | 2   | Electrocuted.....  | 2   | Dering.....            | 1   |
| Cardiff.....        | 1   | Loaders.....         | 7   | Falling coal.....  | 8   | Franklin C. & C.....   | 1   |
| Carrier Mills.....  | 1   | Machine help's.....  | 2   | Falling rock.....  | 3   | Harrisburg.....        | 2   |
| Christopher.....    | 2   | Machine runn'rs..... | 3   | Falling slate..... | 10  | Hart-Williams.....     | 1   |
| Dorrisville.....    | 3   | Miners.....          | 14  | Motor.....         | 1   | O'Gara.....            | 21  |
| Duquoin.....        | 1   | Timbermen.....       | 2   | Pit cars.....      | 7   | Rend, W. P.....        | 3   |
| Eldorado.....       | 4   | Trackmen.....        | 2   | Railroad cars..... | 1   | St. Louis.....         | 2   |
| Freeman.....        | 1   | Trappers.....        | 2   |                    |     | Saline Co.....         | 1   |
| Galatia.....        | 1   | Tripriders.....      | 2   |                    |     | Sesser.....            | 1   |
| Harrisburg.....     | 15  |                      |     |                    |     | Southern Illinois..... | 1   |
| Ledford.....        | 1   |                      |     |                    |     | United.....            | 1   |
| Marissa.....        | 1   |                      |     |                    |     | Wasson.....            | 2   |
| Muddy.....          | 1   |                      |     |                    |     | Zeigler Dist.....      | 1   |
| Royalton.....       | 1   |                      |     |                    |     |                        |     |
| Sesser.....         | 1   |                      |     |                    |     |                        |     |
| Virden.....         | 1   |                      |     |                    |     |                        |     |
| West Frankfort..... | 1   |                      |     |                    |     |                        |     |
| Zeigler.....        | 2   |                      |     |                    |     |                        |     |
| Total.....          | 40  |                      | 40  |                    | 40  |                        | 40  |

*Non-fatal casualties—Eleventh District—June 30, 1912.*

| Date.   | Name.                | Residence.           | Age. | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|---------|----------------------|----------------------|------|----------|---------|-----------|-------------|--|-----------------|
| 1911.   |                      |                      |      |          |         |           |             |  |                 |
| July 17 | Al Blackwell.....    | 28 Ledford.....      |      | 1        |         |           |             | Finger injured, pit car.....               | 38              |
| 20      | Wm. T. Meyers.....   | 25 Christopher.....  |      | 1        |         |           |             | Foot cut off, pit car.....                 | 200             |
| 21      | Albert Somanak.....  | 45 Wasson.....       |      | 1        | 6       | 7         |             | Leg broken, falling coal.....              | 175             |
| 21      | Seth Ballow.....     | 34 Ledford.....      |      | 1        | 2       | 3         |             | Leg broken, falling slate.....             | 65              |
| 24      | Alvin Cross.....     | 40 Sesser.....       |      | 1        | 4       | 5         |             | Back injured, falling slate.....           | *               |
| Aug. 10 | Trov Cross.....      | 26 do.....           |      | 1        | 1       | 3         |             | Leg broken, falling coupling.....          | 35              |
| 23      | William Shipper..... | 25 Wasson.....       |      | 1        |         |           |             | Leg injured, pit car.....                  | 53              |
| 26      | John Spanio.....     | 33 Rend.....         |      | 1        |         |           |             | Ankle broken, machine.....                 | 100             |
| 28      | Al Blackwell.....    | 28 Ledford.....      |      | 1        |         |           |             | Finger broken, pit car.....                | 38              |
| Sept. 7 | Adam Mankins.....    | 35 Harrisburg.....   |      | 1        | 2       | 3         |             | Back injured, falling slate.....           | 42              |
| 14      | Frank Adams.....     | 44 Ledford.....      |      | 1        | 2       | 3         |             | Ankle injured, falling rock.....           | 33              |
| 21      | James Golia.....     | 25 W. Frankfort..... |      | 1        |         |           |             | Shoulder injured, falling rock.....        | 40              |
| Oct. 2  | Claude Hanson.....   | 23 Wasson.....       |      | 1        |         | 1         |             | Body burned, gas explosion.....            | 29              |
| 14      | Mike Clements.....   | 45 Christopher.....  |      | 1        | 3       | 4         |             | Foot injured, falling coal.....            | 40              |
| 24      | Gus Morris.....      | 45 Benton.....       |      | 1        | 2       | 3         |             | Body burned, powder explosion.....         | 45              |
| 24      | Chas. Herbet.....    | 48 Sesser.....       |      | 1        |         | 1         |             | Body burned, gas explosion.....            | 90              |
| 27      | Walter Wilson.....   | 16 Harrisburg.....   |      | 1        |         |           |             | Leg broken, pit car.....                   | 126             |
| 30      | Barney Gasway.....   | 32 Christopher.....  |      | 1        | 3       | 4         |             | Back injured, fell off boiler wall.....    | 90              |
| Nov. 4  | Frank Kantros.....   | 34 Ledford.....      |      | 1        | 4       | 5         |             | Body injured, falling slate.....           | 40              |
|         | Joe Goglewski.....   | 22 Wasson.....       |      | 1        |         |           |             | Back injured, falling coal.....            | 120             |
|         | Geo. Rayhart.....    | 32 Harrisburg.....   |      | 1        |         |           |             | Foot injured, falling coal.....            | 69              |
|         | Loyd Levault.....    | 21 Sesser.....       |      | 1        |         | 1         |             | Body injured, falling slate.....           | 39              |
| 10      | Jas. H. Pittman..... | 35 Ledford.....      |      | 1        | 3       | 4         |             | Leg broken, machine.....                   | 115             |
| 11      | J. H. Mooney.....    | 30 Rend.....         |      | 1        |         |           |             | Hand broken, pit car.....                  | 40              |
| 13      | Frank Siebert.....   | 20 Benton.....       |      | 1        |         |           |             | Body injured, pit car.....                 | 35              |
| 15      | Mike Buthenie.....   | 60 Zeigler.....      |      | 1        |         |           |             | Body injured, fell off trestle.....        | 51              |
| 15      | George Lorenze.....  | 25 W. Frankfort..... |      | 1        | 2       | 3         |             | Shoulder injured, pit car.....             | 30              |
| 15      | Loyd LeVant.....     | 22 Sesser.....       |      | 1        |         |           |             | Leg injured, pit car.....                  | *               |
| 18      | Joe Malvicini.....   | 35 Rend.....         |      | 1        |         |           |             | Ankle injured, machine.....                | 90              |
| 21      | Steve Keoicka.....   | 32 Christopher.....  |      | 1        | 2       | 3         |             | Back broken, falling coal.....             | *               |
| 27      | Chas. Cosmos.....    | 32 W. Frankfort..... |      | 1        |         |           |             | Body injured, falling rock.....            | *               |
| 28      | John Choketty.....   | 40 Rend.....         |      | 1        | 4       | 5         |             | Body burned, gas explosion.....            | 60              |
| 28      | Chas. Golenski.....  | 28 Wasson.....       |      | 1        |         |           |             | Body injured, falling slate.....           | *               |
| 29      | Robt. Gully.....     | 27 Valier.....       |      | 1        | 2       | 3         |             | Wrist broken, railroad car.....            | 60              |



*Non-fatal casualties—Eleventh District—Continued.*

| Date. | Name.                 | Age. | Residence.    | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|-------|-----------------------|------|---------------|----------|---------|-----------|-------------|--|-----------------|
| 1911. |                       |      |               |          |         |           |             |  |                 |
| Dec.  | 6 E. Calsoni          | 28   | Royalton      | 1        | 1       |           |             | Legs injured, pit car                      | 31              |
|       | 7 Geo. Werwezka       | 22   | Gaskins City  | 1        | 1       |           |             | Foot injured, motor                        | 45              |
|       | 8 Oscar Pauley        | 44   | Christopher   | 1        |         | 3         |             | Foot injured, falling coal                 | 35              |
|       | 13 Sherman Hutchcraft | 40   | Hanaford      | 1        |         |           |             | Leg injured, cage                          | 90              |
|       | 13 Walter Belski      | 30   | Wasson        | 1        | 1       |           |             | Finger broken, machine                     | 50              |
|       | 14 Joe Stewart        | 31   | Ledford       | 1        |         |           | 1           | do   | 35              |
|       | 22 John Semento       | 30   | Benton        | 1        | 1       |           |             | Foot injured, falling coal                 | *               |
|       | 22 William Collier    | 48   | Dorrisville   | 1        |         | 5         | 6           | do   | 60              |
|       | 24 Clarence Williams  | 21   | W. Frankfort  | 1        |         |           |             | Arm injured, fan                           | *               |
|       | 27 Julia A. Ban       | 29   | do            | 1        |         | 2         | 3           | Leg broken, fell into sump                 | *               |
|       | 27 Edgar Poole        | 33   | do            | 1        |         |           | 6           | Body injured, cage                         | 145             |
|       | 29 S. J. Kelley       | 34   | Ledford       | 1        |         | 5         | 5           | Leg broken, falling coal                   | 67              |
| 1912. |                       |      |               |          |         |           |             |  |                 |
| Jan.  | 2 Wm. White           | 23   | Christopher   | 1        |         | 2         | 3           | Body burned, gas explosion                 | 90              |
|       | 2 Ben Gamber          | 23   | do            | 1        |         |           |             | do   | 90              |
|       | 2 Lottie Frankovich   | 21   | do            | 1        |         | 1         | 2           | do   | 90              |
|       | 2 Sam White           | 54   | do            | 1        |         |           | 1           | do   | 90              |
|       | 5 Wm. Bradley         | 21   | Ledford       | 1        |         |           | 1           | Eye destroyed, squeezed by mule            | 35              |
|       | 6 Jack Greenwood      | 21   | Christopher   | 1        |         |           | 1           | Hand broken, machine                       | 45              |
|       | 9 John O. Hopkins     | 30   | do            | 1        |         | 3         | 4           | Hand cut off, saw                          | *               |
|       | 10 Wm. Garside        | 34   | Harrisburg    | 1        |         | 1         | 2           | Ankle broken, falling coal                 | 40              |
|       | 15 John Dove          | 42   | do            | 1        |         |           |             | Eye injured, flying coal                   | *               |
|       | 26 Logan Level        | 45   | do            | 1        |         | 4         | 5           | Head injured, falling slate                | 36              |
|       | 27 Columbus Brown     | 23   | do            | 1        |         |           |             | Finger cut off, pit car                    | *               |
|       | 30 John W. Lindsay    | 27   | Buckner       | 1        |         | 1         | 2           | Leg broken, machine                        | 150             |
| Feb.  | 1 John Belts          | 18   | Eldorado      | 1        |         |           |             | Leg broken, pit car                        | *               |
|       | 2 Chas. Morgan        | 42   | do            | 1        |         | 4         | 5           | Eye destroyed, flying steel                | 40              |
|       | 2 Wm. Philipps        | 27   | Gaskins City  | 1        |         | 1         | 2           | Body burned, gas explosion                 | 56              |
|       | 3 Toni Kosta          | 30   | Christopher   | 1        |         |           |             | Finger injured, coal fell down shaft       | 33              |
|       | 5 Frank Shew          | 22   | Benton        | 1        |         |           |             | Leg broken, falling coal                   | 42              |
|       | 6 Robt. Roncalione    | 29   | Christopher   | 1        |         |           |             | Toe injured, falling timber                | 36              |
|       | 6 Fred Neibel         | 47   | Gaskins City  | 1        |         | 9         | 10          | Leg broken, flying coal                    | 60              |
|       | 9 John Cresse         | 41   | Muddy         | 1        |         | 3         | 4           | Leg broken, machine                        | 36              |
|       | 10 Jacob Glinski      | 48   | Harrisburg    | 1        |         | 4         | 5           | Body injured, pit car                      | 45              |
|       | 12 Chas. Schroggins   | 33   | Carrier Mills | 1        |         | 2         | 4           | Arm broken, pit car                        | 60              |
|       | 13 Chas. Martin       | 35   | Ledford       | 1        |         | 2         | 3           | Rib broken, falling slate                  | 116             |
|       | 14 Cliff Easter       |      | Harrisburg    | 1        |         |           |             | Arm broken, pit car                        | 30              |
|       | 16 R. E. Edwards      | 26   | do            | 1        |         |           | 1           | Foot broken, pit car                       | 60              |
|       | 17 A. J. Johnson      | 56   | Muddy         | 1        |         |           | 1           | Leg broken, machine                        | 60              |
|       | 17 Louie Rosbas       | 37   | Ledford       | 1        |         | 1         | 2           | Rib broken, falling slate                  | 44              |
|       | 19 O. N. Andrews      | 39   | Harrisburg    | 1        |         | 1         | 1           | Body injured, falling slate                | 30              |
|       | 19 F. S. Kenipp       | 38   | do            | 1        |         | 2         | 3           | Hand injured, falling coal                 | 30              |
|       | 20 Art. Issler        | 39   | Royalton      | 1        |         | 6         | 7           | Head injured, falling coal                 | *               |
|       | 22 Taylor Butler      | 36   | Harrisburg    | 1        |         | 4         | 5           | Leg injured, struck by hook                | 30              |
|       | 24 Pat Shea           | 20   | Dorrisville   | 1        |         |           | 2           | Arm broken, falling coal                   | 75              |
|       | 28 L. Krayetes        | 32   | Ledford       | 1        |         | 1         | 2           | Leg broken, falling slate                  | 30              |
|       | 29 Theo. Gibbs        | 28   | Muddy         | 1        |         |           | 3           | Body injured, falling slate                | 30              |
| Mar.  | 1 Sam Kreddo          | 33   | W. Frankfort  | 1        |         |           | 1           | Foot cut off, pit car                      | *               |
|       | 3 Joe Schirer         | 30   | Zeigler       | 1        |         |           |             | Foot injured, machine                      | *               |
|       | 3 Adolf Heberer       | 24   | Royalton      | 1        |         |           | 1           | Leg broken, pit car                        | *               |
|       | 5 Frank Adams         | 44   | Ledford       | 1        |         | 2         | 2           | Ribs broken, pit car                       | 42              |
|       | 5 J. D. Thompson      | 45   | Carrier Mills | 1        |         | 5         | 6           | Leg broken, falling slate                  | 90              |
|       | 7 John Pernordonia    | 43   | Christopher   | 1        |         |           |             | Foot injured, rail                         | 30              |
|       | 11 Mike Dinik         | 25   | Zeigler       | 1        |         |           |             | Leg injured, pit car                       | 49              |
|       | 12 Robt. T. Hunter    | 25   | Wasson        | 1        |         | 1         | 2           | Body injured, premature shot               | 42              |
|       | 13 Frank Perkin       | 40   | Harrisburg    | 1        |         | 6         | 7           | Body injured, falling coal                 | 42              |
|       | 13 Neal Wood          | 20   | Eldorado      | 1        |         |           |             | Leg broken, pit car                        | 30              |
|       | 15 Jas Lewis          | 28   | Carrier Mills | 1        |         | 1         | 2           | Leg injured, machine                       | 35              |
|       | 16 Mark Jordan        | 17   | Christopher   | 1        |         |           |             | Body injured, pit car                      | 40              |
|       | 18 Tony Tetrotis      | 23   | Harrisburg    | 1        |         |           |             | Leg broken, falling slate                  | 56              |
|       | 18 Thos. Bunder       | 32   | Carrier Mills | 1        |         | 2         | 3           | Arm injured, crossbar                      | 30              |
|       | 19 Allie Harris       | 47   | Eldorado      | 1        |         |           |             | Body injured, falling slate                | 30              |
|       | 20 S. D. Haye         | 36   | Harrisburg    | 1        |         | 3         | 4           | Body burned, gas explosion                 | 30              |
|       | 22 Ed. Ritter         | 30   | Galatia       | 1        |         |           | 1           | Body injured, cage                         | 45              |
|       | 22 Gene Ritter        | do   | do            | 1        |         |           |             | do   | 30              |
|       | 22 Frank Ritter       | do   | do            | 1        |         |           | 1           | do   | 30              |
|       | 22 Chas. Chaplin      | 22   | Benton        | 1        |         |           | 3           | Leg broken, motor                          | 42              |

*Non-fatal casualties—Eleventh District—Concluded.*

| Date.   | Name.                 | Age. | Residence.       | Married.<br>Single. | Children. | Dependents. | Character<br>of injury and cause of<br>accident. | Time lost—days. |
|---------|-----------------------|------|------------------|---------------------|-----------|-------------|--|-----------------|
| Mar. 23 | Ray Deal.....         | 22   | Harrisburg.....  | 1                   | ..        | 2           | Head injured, kicked by mule..                   | 30              |
| 26      | Omer Griffith.....    | 22   | Zeigler.....     | 1                   | 1         | ..          | Collar bone broken, pit car.....                 | 42              |
| 27      | Waber Strezney.....   | 40   | do.....          | 1                   | ..        | 3           | Leg broken, falling coal.....                    | *               |
| 27      | Joe Bortical.....     | 22   | Ledford.....     | 1                   | 1         | ..          | Body injured, falling slate.....                 | 52              |
| 27      | Ed Berry.....         | 40   | Hanaford.....    | 1                   | ..        | 4           | Leg injured, chain.....                          | 180             |
| 30      | Shannon Eubanks.....  | 32   | W. Frankfort.... | 1                   | ..        | 2           | Body injured, ladder.....                        | *               |
| May 11  | John Black.....       | 32   | Eldorado.....    | 1                   | ..        | 4           | Finger cut off, falling rock.....                | 42              |
| 11      | Roy McClusky.....     | 18   | Harrisburg.....  | 1                   | 1         | ..          | Finger cut off, motor.....                       | 45              |
| 15      | Elmer Williams.....   | 23   | Eldorado.....    | 1                   | 1         | ..          | Leg broken, fell off cage.....                   | 42              |
| 15      | Lewis Coget.....      | 47   | Harrisburg.....  | 1                   | ..        | 3           | Body injured, fell off cage.....                 | 47              |
| 16      | W. J. Catchcart.....  | 44   | do.....          | 1                   | ..        | 8           | Body burned, gas explosion.....                  | 54              |
| 16      | Frank Douglas.....    | 22   | W. Frankfort.... | 1                   | ..        | 1           | Body injured, kicked by mule.....                | *               |
| 21      | John Kobilsky.....    | 41   | Sesser.....      | 1                   | ..        | 6           | Leg broken, falling coal.....                    | 30              |
| 24      | J. W. Shipe.....      | 64   | Eldorado.....    | 1                   | ..        | 2           | Ribs broken, falling slate.....                  | 60              |
| 24      | Andy Slobodongreek.   | 39   | Muddy.....       | 1                   | 1         | 2           | Foot injured, falling coal.....                  | *               |
| 29      | Galtan Benedetti..... | 50   | Rend.....        | 1                   | ..        | 4           | Back injured, falling coal.....                  | *               |
| June 3  | James Welch, Jr.....  | 22   | Eldorado.....    | 1                   | 1         | ..          | Body burned, gas explosion.....                  | *               |
| 3       | Chas. Henninger.....  | 33   | Christopher..... | 1                   | 1         | ..          | Collar bone broken, pit car.....                 | *               |
| 6       | Tony Kondratis.....   | 33   | Harrisburg.....  | 1                   | 1         | ..          | Body burned, gas explosion.....                  | 40              |
| 7       | W. A. Durham.....     | 51   | Benton.....      | 1                   | 1         | 1           | Foot injured, pit car.....                       | *               |
| 10      | Joe M. Pontowich..... | 28   | Sesser.....      | 1                   | 1         | ..          | Body injured kicked by mule.....                 | *               |
| 12      | Thos. Hillman.....    | 24   | Christopher..... | 1                   | 1         | ..          | Ribs broken, pit car.....                        | *               |
| 25      | Steve Gormurch.....   | 22   | Sesser.....      | 1                   | 1         | ..          | Body injured, pit car.....                       | *               |
|         | Total.....            | ..   | ..               | 74                  | 49        | 173         | 246  |                 |

\* Not returned to work, July 1, 1912.

|                                  |     |
|----------------------------------|-----|
| Total number injured.....        | 123 |
| Number not returned to work..... | 27  |

|                              |    |
|------------------------------|----|
| Number returned to work..... | 96 |
|------------------------------|----|

|  |       |
|--|-------|
| Total days lost by men returned to work..... | 5,517 |
|--|-------|

|                        |       |
|------------------------|-------|
| Average days lost..... | 57.47 |
|------------------------|-------|

*Recapitulation of non-fatal casualties—Eleventh District—1912.*

| Residence.         | No. | Occupation.         | No. | Cause of accident.        | No. | Colliery.                   | No. |
|--------------------|-----|---------------------|-----|---------------------------|-----|-----------------------------|-----|
| Benton.....        | 6   | Cager.....          | 1   | Cage.....                 | 5   | Bell & Zollar.....          | 5   |
| Buckner.....       | 1   | Carpenters.....     | 2   | Chain.....                | 1   | Benton.....                 | 3   |
| Carrier Mills..... | 4   | Coupler.....        | 1   | Coal fell down shaft..    | 1   | Carroll & Franklin Cos..... | 2   |
| Christopher.....   | 17  | Drivers.....        | 17  | Cross bar.....            | 1   | Dering.....                 | 9   |
| Dorrisville.....   | 2   | Firemen.....        | 3   | Falling coal.....         | 20  | Eldorado.....               | 3   |
| Eldorado.....      | 8   | Laborers.....       | 17  | Falling coupling.....     | 1   | Franklin C. & C.....        | 3   |
| Galatia.....       | 3   | Loader.....         | 1   | Falling rock.....         | 4   | Hart-Williams.....          | 3   |
| Gaskin City.....   | 3   | Machinist.....      | 1   | Falling slate.....        | 17  | O'Gara.....                 | 33  |
| Hanaford.....      | 2   | Machine helper..... | 2   | Falling timber.....       | 1   | Ohio Valley.....            | 1   |
| Harrisburg.....    | 21  | Machine runner..... | 14  | Fan.....                  | 1   | Rend, W. P.....             | 5   |
| Ledford.....       | 14  | Mine examiner.....  | 2   | Fell into sump.....       | 1   | St. Louis.....              | 3   |
| Muddy.....         | 4   | Miners.....         | 44  | Fell off boiler wall..... | 1   | Saline Co.....              | 19  |
| Rend.....          | 5   | Motorman.....       | 1   | Fell off cage.....        | 2   | Sesser.....                 | 8   |
| Royalton.....      | 3   | Pumpman.....        | 1   | Fell off trestle.....     | 1   | United.....                 | 7   |
| Sesser.....        | 8   | Shot firer.....     | 1   | Flying coal.....          | 1   | Wasson.....                 | 7   |
| Valier.....        | 1   | Spraggers.....      | 4   | Flying steel.....         | 1   | Zeigler Dist.....           | 12  |
| Wasson.....        | 7   | Trappers.....       | 2   | Gas explosion.....        | 12  |                             |     |
| W. Frankfort.....  | 9   | Timberman.....      | 1   | Ladder.....               | 1   |                             |     |
| Zeigler.....       | 5   | Tripriders.....     | 8   | Machine.....              | 11  |                             |     |
|                    |     |                     |     | Motor.....                | 3   |                             |     |
|                    |     |                     |     | Mule.....                 | 1   |                             |     |
|                    |     |                     |     | Mule, kicked by.....      | 3   |                             |     |
|                    |     |                     |     | Pit cars.....             | 27  |                             |     |
|                    |     |                     |     | Powder explosion.....     | 1   |                             |     |
|                    |     |                     |     | Premature blast.....      | 1   |                             |     |
|                    |     |                     |     | Rail.....                 | 1   |                             |     |
|                    |     |                     |     | Railroad car.....         | 1   |                             |     |
|                    |     |                     |     | Saw.....                  | 1   |                             |     |
|                    |     |                     |     | Struck by hook.....       | 1   |                             |     |
| Total.....         | 123 |                     | 123 |                           | 123 |                             | 123 |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Eleventh District—1912.*

| Nature of injuries.     | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percent-<br>age of<br>injuries. |
|-------------------------|---------|----------|---------|-----------|-------------|-----------------|----------|---------------------------------|
|                         |         |          |         |           |             | Total.          | Average. |                                 |
| Ankles broken.....      | 2       | 1        | 1       | 1         | 2           | 140             | 70.00    | 1.63                            |
| Ankles injured.....     | 2       | 1        | 1       | 2         | 3           | 123             | 61.50    | 1.63                            |
| Arms broken.....        | 3       | 1        | 2       | 2         | 6           | 165             | 55.00    | 2.44                            |
| Arms injured.....       | 2       | 1        | 1       | 2         | 3           | 35              | 35.00    | 1.63                            |
| Back broken.....        | 1       | 1        | —       | 2         | 3           | —               | .81      | —                               |
| Backs injured.....      | 5       | 4        | 1       | 13        | 17          | 252             | 84.00    | 4.06                            |
| Bodies burned.....      | 13      | 10       | 3       | 21        | 31          | 764             | 63.67    | 10.56                           |
| Bodies injured.....     | 23      | 13       | 10      | 29        | 37          | 773             | 45.47    | 18.70                           |
| Collar bone broken..... | 2       | 1        | 1       | —         | —           | 42              | 42.00    | 1.63                            |
| Eyes destroyed.....     | 2       | 2        | —       | 4         | 6           | 75              | 37.50    | 1.63                            |
| Eye injured.....        | 1       | —        | 1       | —         | —           | —               | .81      | —                               |
| Feet broken.....        | 1       | 1        | —       | —         | 1           | 60              | 60.00    | .81                             |
| Feet cut off.....       | 2       | 1        | 1       | —         | 1           | 200             | 200.00   | 1.63                            |
| Feet injured.....       | 10      | 4        | 6       | 12        | 17          | 339             | 48.43    | 8.13                            |
| Fingers broken.....     | 3       | 1        | 2       | —         | 1           | 123             | 41.00    | 2.44                            |
| Fingers cut off.....    | 3       | 1        | 2       | 4         | 5           | 87              | 43.50    | 2.44                            |
| Fingers injured.....    | 2       | 1        | 1       | —         | —           | 71              | 35.50    | 1.63                            |
| Hands broken.....       | 2       | 1        | 1       | —         | 1           | 85              | 42.50    | 1.63                            |
| Hands cut off.....      | 1       | 1        | —       | 3         | 4           | —               | .81      | —                               |
| Hands injured.....      | 1       | 1        | —       | 2         | 3           | 30              | 30.00    | .81                             |
| Heads injured.....      | 3       | 3        | —       | 10        | 14          | 66              | 33.00    | 2.44                            |
| Legs broken.....        | 22      | 15       | 7       | 46        | 65          | 1,221           | 71.82    | 17.89                           |
| Legs injured.....       | 8       | 4        | 4       | 9         | 13          | 468             | 66.86    | 6.50                            |
| Ribs broken.....        | 5       | 3        | 2       | 7         | 7           | 232             | 58.00    | 4.06                            |
| Shoulders injured.....  | 2       | 1        | 1       | 2         | 3           | 70              | 35.00    | 1.63                            |
| Toes injured.....       | 1       | —        | 1       | —         | —           | 36              | 36.00    | .81                             |
| Wrist broken.....       | 1       | 1        | —       | 2         | 3           | 60              | 60.00    | .81                             |
| Total.....              | 123     | 74       | 49      | 173       | 246         | 5,517           | 57.47    | 100.00                          |

*Franklin County—*

| Number.             | Name of operator.                        | Postoffice address of the mines. | Output of mines in tons. |          |               |             |
|---------------------|--|----------------------------------|--------------------------|----------|---------------|-------------|
|                     |  |                                  | Mine run.                | Lump.    | Other grades. | Total.      |
| SHIPPING MINES.     |  |                                  |                          |          |               |             |
| 1                   | United C. M. Co., No. 1.....             | Christopher.....                 | 8, 178                   | 181, 159 | 334, 826      | 524, 163    |
| 2                   | Zeigler Dist. Col. Co., N. Mine.....     | do.....                          | 13, 163                  | 125, 349 | 336, 874      | 475, 386    |
| 3                   | Sesser Coal Co.....                      | Sesser.....                      | 15, 674                  | 82, 424  | 326, 351      | 424, 449    |
| 4                   | Bell-Zoller M. Co., No. 1.....           | Zeigler.....                     | 38, 876                  | 49, 942  | 334, 869      | 423, 687    |
| 5                   | Benton Coal Co., No. 1.....              | Benton.....                      | 25, 590                  | 94, 172  | 262, 703      | 382, 465    |
| 6                   | Hart-Williams C. Co., No. 1.....         | do.....                          | 19, 376                  | 70, 576  | 242, 398      | 332, 350    |
| 7                   | W. P. Rend Col. Co., No. 1.....          | Rend.....                        | 230, 590                 | 10, 354  | 26, 497       | 267, 441    |
| 8                   | Dering Coal Co., No. 11.....             | W. Frankfort...                  | 31, 361                  | 51, 635  | 138, 910      | 221, 906    |
| 9                   | Franklin C. & C. Co., Mitchell.....      | Royalton.....                    | 32, 105                  | 52, 906  | 127, 101      | 212, 112    |
| 10                  | Southern Ill. C. & C. Co., P. R.....     | Herrin.....                      | 89, 619                  | 35, 731  | 81, 568       | 206, 918    |
| 11                  | Ohio Valley M. Co., No. 8.....           | W. Frankfort...                  | 29, 022                  | 50, 172  | 118, 579      | 197, 773    |
| 12                  | Dering Coal Co., No. 18.....             | do.....                          | 59, 511                  | 23, 200  | 35, 926       | 118, 637    |
| 13                  | Carroll & Franklin Co. C. Co.....        | Hanaford.....                    | 3, 000                   | 24, 885  | 71, 655       | 99, 540     |
| 14                  | Unlted Coal Mining Co., No. 2.....       | Christopher.....                 | 3, 286                   | 13, 677  | 53, 022       | 69, 985     |
| 15                  | Bie Muddy-Carterville M. Co., No. 1..... | Royalton.....                    | 26, 942                  | 5, 280   | 26, 380       | 58, 602     |
| 16                  | West Frankfort Coal Co., W. Mine.....    | W. Frankfort...                  | 11, 401                  | .....    | .....         | 11, 401     |
| Total—16 mines..... |  |                                  | 637, 694                 | 871, 462 | 2, 517, 659   | 4, 026, 815 |

Mines reported for 1911, 15.

New mines, 1.

Mines in 1912, 16.

*Eleventh District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or under cuto both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|--|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |  | Horses.                        | Mules. |         |
| 509,737                           | 14,426          | *85,825                                | 248                       | 45                        | 447                  | 492    | 58,948      | 465,215     | 1          | 4        | U. C. ....                                   | 16                             |        | 1       |
| 461,963                           | 13,423          | 4,138                                  | 236                       | 45                        | 352                  | 397    | 101,389     | 373,997     | 1          | 12       | Both. ....                                   | 19                             |        | 2       |
|                                   |                 | 1,531                                  |                           |                           |                      |        |             |             |            |          |  |                                |        |         |
| 421,449                           | 3,000           | *41,300                                | 226                       | .....                     | 343                  | 343    | 24,047      | 400,402     | 1          | 8        | U. C. ....                                   | 19                             |        | 3       |
| 402,752                           | 20,935          | *74,125                                | 208                       | .....                     | 440                  | 440    | .....       | 423,687     | 2          | 5        | do. ....                                     | 2                              |        | 4       |
| 360,503                           | 21,962          | *1,850                                 | 188                       | 75                        | 325                  | 400    | 95,616      | 286,849     | .....      | 3        | Both. ....                                   | 20                             |        | 5       |
|                                   |                 | 4,350                                  |                           |                           |                      |        |             |             |            |          |  |                                |        |         |
| 322,209                           | 10,141          | 3,118                                  | 162                       | 278                       | 185                  | 463    | 43,023      | 289,327     | 1          | 3        | U. C. ....                                   | 18                             |        | 6       |
| 255,419                           | 12,022          | 3,351                                  | 221                       | .....                     | 295                  | 295    | .....       | 267,441     | 3          | 5        | do. ....                                     | 5                              |        | 7       |
| 212,509                           | 9,397           | *44,600                                | 169                       | .....                     | 331                  | 331    | 12,490      | 209,416     | .....      | 5        | do. ....                                     | 20                             |        | 8       |
| 205,777                           | 6,335           | 5,535                                  | 214                       | 38                        | 270                  | 308    | 53,028      | 159,084     | 1          | 3        | Both. ....                                   | 12                             |        | 9       |
| 192,419                           | 14,499          | 2,635                                  | 223                       | .....                     | 214                  | 214    | .....       | 206,918     | 1          | .....    | U. C. ....                                   | 14                             |        | 10      |
| 184,594                           | 13,179          | *33,225                                | 167                       | .....                     | 203                  | 203    | .....       | 197,773     | .....      | 1        | do. ....                                     | .....                          |        | 11      |
| 111,873                           | 6,764           | *28,400                                | 164                       | .....                     | 204                  | 204    | 13,696      | 104,941     | 1          | 4        | do. ....                                     | 17                             |        | 12      |
| 92,632                            | 6,908           | 1,023                                  | 173                       | .....                     | 131                  | 131    | .....       | 99,540      | .....      | 2        | do. ....                                     | 6                              |        | 13      |
| 68,086                            | 1,899           | *17,600                                | 234                       | .....                     | 94                   | 94     | 3,497       | 66,488      | .....      | 3        | do. ....                                     | 2                              |        | 14      |
| 56,138                            | 2,464           | 2,658                                  | 174                       | 65                        | 70                   | 135    | 58,602      | .....       | .....      | .....    | Solid. ....                                  | 9                              |        | 15      |
| 4,169                             | 7,232           | 700                                    | 270                       | 8                         | 14                   | 22     | 11,401      | .....       | .....      | .....    | do. ....                                     | 1                              |        | 16      |
| 3,862,229                         | 164,586         | *326,925<br>27,039                     | 205                       | 554                       | 3,918                | 4,472  | 475,737     | 3,551,078   | 12         | 58       | .....  | 5                              | 185    |         |

\* Pounds of permissible explosives.

*Gallatin County—*

| Number.             | Name of operator.                | Postoffice address of the mines. | Output of mines in tons. |        |               |        |
|---------------------|----------------------------------|----------------------------------|--------------------------|--------|---------------|--------|
|                     |                                  |                                  | Mine run.                | Lump.  | Other grades. | Total. |
| SHIPPING MINES.     |                                  |                                  |                          |        |               |        |
| 1                   | Gallatin C. & C. Co., No. 1..... | Equality.....                    | 8,974                    | 6,610  | 12,855        | 28,439 |
| 2                   | Hickory Hill C. Co., No. 1.....  | do.....                          |                          | 11,535 | 7,690         | 19,225 |
| 3                   | Crescent Coal Co., E. Side..     | do.....                          | 1,200                    | 9,508  | 4,755         | 15,463 |
| Total.....          |                                  |                                  | 10,174                   | 27,653 | 25,300        | 63,127 |
| LOCAL MINES.        |                                  |                                  |                          |        |               |        |
| 1                   | J. O. Baldwin.....               | Equality.....                    |                          | 3,200  | 450           | 3,650  |
| 2                   | Wm. Strong.....                  | Shawneetown..                    | 1,000                    |        | 800           | 1,800  |
| 3                   | J. E. Dempsey.....               | Equality.....                    |                          | 1,660  |               | 1,660  |
| 4                   | Sisk & McLean.....               | do.....                          |                          | 945    | 300           | 1,245  |
| 5                   | Reid & Brice.....                | Saline Mines..                   | 600                      | 300    | 100           | 1,000  |
| 6                   | R. J. Mitchell.....              | Shawneetown..                    | 580                      |        | 8             | 588    |
| 7                   | E. A. Anderson.....              | Ridgeway.....                    | 500                      |        | 50            | 550    |
| Total.....          |                                  |                                  | 2,680                    | 6,105  | 1,708         | 10,493 |
| Total—10 mines..... |                                  |                                  | 12,854                   | 33,758 | 27,008        | 73,620 |

Mines reported for 1911, 11

New mines, 1.

Abandoned mines, 2.

Mines in 1912, 10.

*Eleventh District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 23,064                            | 5,375           | 1,228                                  | 174                       | 40                        | 10                   | 50     | 28,439      | .....       | .....      | .....    | Solid.....                                    | .....                          | 6      | 1       |
| 19,225                            | .....           | 1,101                                  | 155                       | 40                        | 13                   | 53     | 19,225      | .....       | .....      | .....    | do.....                                       | .....                          | 8      | 2       |
| 14,043                            | 1,420           | 275                                    | 136                       | .....                     | 32                   | 32     | .....       | 15,463      | .....      | .....    | U. C.....                                     | .....                          | 3      | 3       |
| 56,332                            | 6,795           | 2,604                                  | 155                       | 80                        | 55                   | 135    | 47,664      | 15,463      | .....      | .....    | .....   | .....                          | 17     |         |
| .....                             | 3,650           | 122                                    | 190                       | 4                         | 1                    | 5      | 3,650       | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 1,800           | 100                                    | 150                       | 2                         | 1                    | 3      | 1,800       | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 1,660           | 100                                    | 150                       | 5                         | 2                    | 7      | 1,660       | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 1,245           | 50                                     | 135                       | 3                         | .....                | 3      | 1,245       | .....       | .....      | .....    | .....   | .....                          | .....  | 4       |
| .....                             | 1,000           | 22                                     | 180                       | 4                         | .....                | 4      | 1,000       | .....       | .....      | .....    | .....   | .....                          | .....  | 5       |
| .....                             | 588             | 50                                     | 175                       | 2                         | 1                    | 3      | 588         | .....       | .....      | .....    | .....   | .....                          | .....  | 6       |
| .....                             | 550             | 50                                     | 180                       | 2                         | 1                    | 3      | 550         | .....       | .....      | .....    | .....   | .....                          | .....  | 7       |
| .....                             | 10,493          | 494                                    | 166                       | 22                        | 6                    | 28     | 10,493      | .....       | .....      | .....    | .....   | .....                          | .....  |         |
| 56,332                            | 17,288          | 3,098                                  | 163                       | 102                       | 61                   | 163    | 58,157      | 15,463      | .....      | .....    | .....   | .....                          | 17     |         |

*Saline County—*

| Number.             | Name of operator.                        | Postoffice address of the mines. | Output of mines in tons. |           |               |           |
|---------------------|--|----------------------------------|--------------------------|-----------|---------------|-----------|
|                     |  |                                  | Mine run.                | Lump.     | Other grades. | Total.    |
| SHIPPING MINES.     |  |                                  |                          |           |               |           |
| 1                   | O'Gara Coal Co., No. 9.....              | Harrisburg.....                  | 509                      | 347,954   | 175,120       | 523,583   |
| 2                   | Saline Co. Coal Co., No. 2.....          | Ledford.....                     | 76,762                   | 210,732   | 210,729       | 498,223   |
| 3                   | O'Gara Coal Co., No. 3.....              | Harrisburg.....                  | 59,571                   | 232,195   | 91,919        | 383,685   |
| 4                   | O'Gara Coal Co., No. 1.....              | do.....                          | 23,462                   | 172,210   | 90,646        | 286,318   |
| 5                   | O'Gara Coal Co., No. 10.....             | do.....                          | 4,968                    | 116,390   | 144,587       | 265,945   |
| 6                   | Harrisburg-Southern Coal Co., No. 1..... | Eldorado.....                    | 26,528                   | 88,000    | 150,608       | 265,136   |
| 7                   | Wasson Coal Co., No. 1.....              | Harrisburg.....                  | 53,079                   | 89,392    | 116,950       | 259,421   |
| 8                   | O'Gara Coal Co., No. 4.....              | do.....                          | 11,562                   | 158,131   | 75,207        | 244,900   |
| 9                   | O'Gara Coal Co., No. 14.....             | do.....                          | 111                      | 146,314   | 91,651        | 238,076   |
| 10                  | Saline Co. Coal Co., No. 3.....          | do.....                          | 16,166                   | 40,079    | 179,081       | 235,326   |
| 11                  | Eldorado Coal Mining Co., No. 1.....     | Eldorado.....                    | 27,092                   | 92,037    | 112,837       | 231,966   |
| 12                  | O'Gara Coal Co., No. 15.....             | Harrisburg.....                  | 36,965                   | 101,706   | 54,486        | 193,151   |
| 13                  | O'Gara Coal Co., No. 11.....             | do.....                          | 118,264                  | 11,586    | 4,769         | 134,619   |
| 14                  | Saline Co. Coal Co., No. 1.....          | Ledford.....                     | 21,224                   | 20,410    | 64,033        | 105,667   |
| 15                  | O'Gara Coal Co., No. 7.....              | Harrisburg.....                  | 49,158                   | 30,151    | 11,699        | 91,008    |
| 16                  | O'Gara Coal Co., No. 8.....              | do.....                          | 26,649                   | 28,734    | 12,845        | 68,228    |
| 17                  | O'Gara Coal Co., No. 12.....             | do.....                          | 1,583                    | 18,288    | 11,633        | 31,504    |
| 18                  | St. Louis C. & C. Co., No. 1.....        | Galatia.....                     | 8,000                    | 8,000     | 4,000         | 20,000    |
| Total.....          |  |                                  | 561,653                  | 1,912,303 | 1,602,800     | 4,076,756 |
| LOCAL MINES.        |  |                                  |                          |           |               |           |
| 1                   | W. R. Henshaw.....                       | Carrier Mills.....               | 5,000                    | .....     | .....         | 5,000     |
| 2                   | T. S. Thompson.....                      | Mitchellville.....               | .....                    | 1,000     | 2,000         | 3,000     |
| 3                   | Job Ingram.....                          | Harrisburg.....                  | 400                      | 250       | 195           | 845       |
| 4                   | Moore & McDonald.....                    | Carrier Mills.....               | 200                      | 300       | 200           | 700       |
| 5                   | S. J. Moore.....                         | Equality.....                    | .....                    | 600       | .....         | 600       |
| 6                   | Hazel & Steele.....                      | do.....                          | .....                    | 600       | .....         | 600       |
| 7                   | John Cogdill.....                        | Stonefort.....                   | 500                      | .....     | .....         | 500       |
| 8                   | L. G. Dunn.....                          | do.....                          | 250                      | .....     | .....         | 250       |
| 9                   | Southard & Lynch.....                    | Ledford.....                     | .....                    | 75        | 75            | 150       |
| 10                  | Yates & Reynolds.....                    | Equality.....                    | .....                    | 100       | .....         | 100       |
| 11                  | Ollinson & Edwards.....                  | do.....                          | 50                       | .....     | .....         | 50        |
| 12                  | J. L. Dunn.....                          | Stonefort.....                   | .....                    | 24        | .....         | 24        |
| Total.....          |  |                                  | 6,400                    | 2,949     | 2,470         | 11,819    |
| Total—30 mines..... |  |                                  | 568,053                  | 1,915,252 | 1,605,270     | 4,088,575 |

Mines reported for 1911, 32.

New mines, 2.

Abandoned mines, 4.

Mines in 1912, 30.



## Eleventh District—1912.

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 516 855                           | 6,728           | 4,906                                  | 230                       | .....                     | 456                  | 456    | 1,059       | 522,524     | 15         | 4        | U. C. ....                                    | 37                             | 1      |         |
| 490,307                           | 7,916           | 4,891                                  | 238                       | .....                     | 459                  | 459    | .....       | 498,223     | 1          | 13       | do. ....                                      | 36                             | 2      |         |
| 330,484                           | 53,201          | 3,189                                  | 200                       | .....                     | 428                  | 428    | 1,554       | 382,131     | 1          | 6        | do. ....                                      | 37                             | 3      |         |
| 280,525                           | 5,793           | 4,419                                  | 243                       | .....                     | 268                  | 268    | 47,142      | 239,176     | 1          | 4        | Both. ....                                    | 30                             | 4      |         |
| 253,460                           | 12,485          | 2,244                                  | 207                       | .....                     | 300                  | 300    | .....       | 265,945     | 1          | 2        | U. C. ....                                    | 24                             | 5      |         |
| 265,136                           | .....           | 5,820                                  | 254                       | 125                       | 53                   | 178    | 121,963     | 143,173     | 2          | .....    | Solid. ....                                   | 12                             | 6      |         |
| 256,451                           | 2,970           | 2,250                                  | 249                       | .....                     | 258                  | 258    | .....       | 259,421     | 2          | 7        | U. C. ....                                    | 18                             | 7      |         |
| 231,578                           | 13,322          | 2,171                                  | 190                       | .....                     | 292                  | 292    | .....       | 244,900     | 1          | 5        | do. ....                                      | 29                             | 8      |         |
| 231,884                           | 6,192           | 2,326                                  | 189                       | .....                     | 319                  | 319    | .....       | 238,076     | 1          | 2        | do. ....                                      | 25                             | 9      |         |
| 228,619                           | 6,707           | 3,379                                  | 260                       | .....                     | 286                  | 286    | .....       | 235,326     | .....      | 6        | do. ....                                      | .....                          | 10     |         |
| 229,838                           | 2,128           | 7,047                                  | 235                       | 152                       | 82                   | 234    | 140,266     | 91,700      | .....      | 3        | Both. ....                                    | 22                             | 11     |         |
| 191,554                           | 1,597           | 2,223                                  | 206                       | .....                     | 215                  | 215    | 599         | 192,552     | .....      | 1        | U. C. ....                                    | 19                             | 12     |         |
| 129,770                           | 4,849           | 1,156                                  | 160                       | .....                     | 248                  | 248    | .....       | 134,619     | 1          | 1        | do. ....                                      | 17                             | 13     |         |
| 102,464                           | 3,203           | 1,327                                  | 215                       | .....                     | 174                  | 174    | 6,317       | 99,350      | .....      | .....    | Both. ....                                    | 8                              | 14     |         |
| 87,620                            | 3,388           | 1,002                                  | 135                       | .....                     | 182                  | 182    | .....       | 91,008      | .....      | 3        | U. C. ....                                    | 12                             | 15     |         |
| 66,598                            | 1,630           | 646                                    | 92                        | .....                     | 185                  | 185    | .....       | 68,228      | .....      | .....    | do. ....                                      | 16                             | 16     |         |
| 28,895                            | 2,609           | 401                                    | 96                        | .....                     | 129                  | 129    | .....       | 31,504      | .....      | 5        | do. ....                                      | 14                             | 17     |         |
| 15,500                            | 4,500           | 800                                    | 90                        | 25                        | 23                   | 48     | 20,000      | .....       | 2          | 3        | Solid. ....                                   | 3                              | 18     |         |
| 3,937,538                         | 139,218         | 50,197                                 | 194                       | 302                       | 4,357                | 4,659  | 338,900     | 3,737,856   | 28         | 65       | .....   | .....                          | 359    |         |
| .....                             | 5,000           | 175                                    | 200                       | 2                         | 1                    | 3      | 5,000       | .....       | .....      | .....    | .....   | .....                          | 1      |         |
| .....                             | 3,000           | 40                                     | 100                       | 3                         | 1                    | 4      | 3,000       | .....       | .....      | .....    | .....   | .....                          | 2      |         |
| .....                             | 845             | 25                                     | 102                       | 2                         | 1                    | 3      | 845         | .....       | .....      | .....    | .....   | .....                          | 3      |         |
| .....                             | 700             | 34                                     | 220                       | 3                         | .....                | 3      | 700         | .....       | .....      | .....    | .....   | .....                          | 4      |         |
| .....                             | 600             | 17                                     | 200                       | 2                         | 1                    | 3      | 600         | .....       | .....      | .....    | .....   | .....                          | 5      |         |
| .....                             | 600             | 20                                     | 300                       | 3                         | .....                | 3      | 600         | .....       | .....      | .....    | .....   | .....                          | 6      |         |
| .....                             | 500             | 20                                     | 265                       | 1                         | 1                    | 2      | 500         | .....       | .....      | .....    | .....   | .....                          | 7      |         |
| .....                             | 250             | 7                                      | 140                       | 1                         | .....                | 1      | 250         | .....       | .....      | .....    | .....   | .....                          | 8      |         |
| .....                             | 150             | 10                                     | 20                        | 2                         | 1                    | 3      | 150         | .....       | .....      | .....    | .....   | .....                          | 9      |         |
| .....                             | 100             | 3                                      | 60                        | 1                         | .....                | 1      | 100         | .....       | .....      | .....    | .....   | .....                          | 10     |         |
| .....                             | 50              | 1                                      | 30                        | 1                         | .....                | 1      | 50          | .....       | .....      | .....    | .....   | .....                          | 11     |         |
| .....                             | 24              | 1                                      | 12                        | 1                         | .....                | 1      | 24          | .....       | .....      | .....    | .....   | .....                          | 12     |         |
| .....                             | 11,819          | 353                                    | 137                       | 22                        | 6                    | 28     | 11,819      | .....       | .....      | .....    | .....   | .....                          | .....  |         |
| 3,937,538                         | 151,037         | 50,550                                 | 171                       | 324                       | 4,363                | 4,687  | 350,719     | 3,737,856   | 28         | 65       | .....   | .....                          | 359    |         |

*White County—*

| Number          | Name of operator.        | Postoffice address of the mines. | Output of mines in tons. |       |               |        |
|-----------------|--------------------------|----------------------------------|--------------------------|-------|---------------|--------|
|                 |                          |                                  | Mine run.                | Lump. | Other grades. | Total. |
| SHIPPING MINES. |                          |                                  |                          |       |               |        |
| 1               | Norris City Coal Co..... | Norris City.....                 | 14,690                   | 7,026 | 10,058        | 31,774 |

Mines reported for 1911, 1.

Mines in 1912, 1.

*Shipping mines—recapitulation by*

| Counties.   | Number of mines. | Productions of different grades in tons. |           |         |         |           |         | Total.    | Disposition of output—tons.  |                 |
|-------------|------------------|--|-----------|---------|---------|-----------|---------|-----------|------------------------------|-----------------|
|             |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.      | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Franklin..  | 16               | 637,694                                  | 871,462   | 607,973 | 512,569 | 1,276,447 | 120,670 | 4,026,815 | 3,862,229                    | 164,586         |
| Gallatin... | 3                | 10,174                                   | 27,653    | 2,544   | 1,989   | 12,943    | 7,824   | 63,127    | 56,332                       | 6,795           |
| Saline..... | 18               | 561,653                                  | 1,912,303 | 326,289 | 181,800 | 1,075,532 | 19,179  | 4,076,756 | 3,937,538                    | 139,218         |
| White.....  | 1                | 14,690                                   | 7,026     | .....   | 4,844   | 1,611     | 3,603   | 31,774    | 19,936                       | 11,838          |
| Total..     | 38               | 1,224,211                                | 2,818,444 | 936,806 | 701,202 | 2,366,533 | 151,276 | 8,198,472 | 7,876,035                    | 322,437         |

*Eleventh District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| 19,936                            | 11,838          | 282                                    | 155                       | 30                        | 25                   | 55     | 1,129       | 30,645      | .....      | .....    | Both.....                                     |                                | 4      | 1       |

*counties—Eleventh District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 27,039                                 | 205                       | 554          | 3,369   | 80    | 469               | 4,472  | 475,737     | 3,551,078   | 70,003           | 2,886,849      | 1,069,963          |
| 2,604                                  | 155                       | 80           | 39      | ..... | 16                | 135    | 47,664      | 15,463      | 47,664           | 15,463         | .....              |
| 50,197                                 | 194                       | 302          | 3,884   | 79    | 394               | 4,659  | 338,900     | 3,737,856   | 285,136          | 3,167,669      | 623,951            |
| 282                                    | 155                       | 30           | 17      | ..... | 8                 | 55     | 1,129       | 30,645      | .....            | .....          | 31,774             |
| 80,122                                 | 194                       | 966          | 7,309   | 159   | 887               | 9,321  | 863,430     | 7,335,042   | 402,803          | 6,069,981      | 1,725,688          |

*Local mines—recapitulation by*

| Counties.   | Number of mines. | Productions of different grades in tons. |           |         |         |           |         | Total.    | Disposition of output—tons.  |                 |
|-------------|------------------|--|-----------|---------|---------|-----------|---------|-----------|------------------------------|-----------------|
|             |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.      | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Gallatin... | 7                | 2,680                                    | 6,105     | .....   | 1,250   | .....     | 458     | 10,493    | .....                        | 10,493          |
| Saline..... | 12               | 6,400                                    | 2,949     | .....   | 2,470   | .....     | .....   | 11,819    | .....                        | 11,819          |
| Total..     | 19               | 9,080                                    | 9,054     | .....   | 3,720   | .....     | 458     | 22,312    | .....                        | 22,312          |
| The Dist..  | 57               | 1,233,291                                | 2,827,498 | 936,806 | 704,922 | 2,366,533 | 151,734 | 8,220,784 | 7,876,035                    | 344,749         |

Whole number of mines reported for 1911, 59.

Number of new mines opened during the year, 4.

Number of mines abandoned during the year, 6.

Whole number of mines reported for 1912, 57.

*All mines—recapitulation by*

| Counties.   | Number of mines. | Productions of different grades in tons. |           |         |         |           |         | Total.    | Disposition of output—tons.  |                 |
|-------------|------------------|--|-----------|---------|---------|-----------|---------|-----------|------------------------------|-----------------|
|             |                  | Mine run.                                | Lump.     | Egg.    | Nut.    | Pea.      | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Franklin..  | 16               | 637,694                                  | 871,462   | 607,973 | 512,569 | 1,276,447 | 120,670 | 4,026,815 | 3,862,229                    | 164,586         |
| Gallatin... | 10               | 12,854                                   | 33,758    | 2,544   | 3,239   | 12,943    | 8,282   | 73,620    | 56,332                       | 17,288          |
| Saline..... | 30               | 568,053                                  | 1,915,252 | 326,289 | 184,270 | 1,075,532 | 19,179  | 4,088,575 | 3,937,538                    | 151,037         |
| White.....  | 1                | 14,690                                   | 7,026     | .....   | 4,844   | 1,611     | 3,603   | 31,774    | 19,936                       | 11,838          |
| Total..     | 57               | 1,233,291                                | 2,827,498 | 936,806 | 704,922 | 2,366,533 | 151,734 | 8,220,784 | 7,876,035                    | 344,749         |

*counties—Eleventh District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 494                                    | 166                       | 22           | .....   | ..... | 6                 | 28     | 10,493      | .....       | .....            | .....          | .....              |
| 353                                    | 137                       | 22           | .....   | 2     | 4                 | 28     | 11,819      | .....       | .....            | .....          | .....              |
| 847                                    | 148                       | 44           | .....   | 2     | 10                | 56     | 22,312      | .....       | .....            | .....          | .....              |
| 80,969                                 | 179                       | 1,010        | 7,309   | 161   | 897               | 9,377  | 885,742     | 7,335,012   | .....            | .....          | .....              |

*counties—Eleventh District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        |          | Tons mined. |                  | Blasting coal. |                    |  |
|--|---------------------------|--------------|---------|-------|-------------------|--------|----------|-------------|------------------|----------------|--------------------|--|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand. | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |  |
|  |                           | Miners.      | Others. | Boys. |                   |        |          |             |                  |                |                    |  |
|  |                           |              |         |       |                   |        |          |             |                  |                |                    |  |
| 27,039                                 | 205                       | 554          | 3,369   | 80    | 469               | 4,472  | 475,737  | 3,551,078   | .....            | .....          | .....              |  |
| 3,098                                  | 163                       | 102          | 39      | ..... | 22                | 163    | 58,157   | 15,463      | .....            | .....          | .....              |  |
| 50,550                                 | 171                       | 324          | 3,884   | 81    | 398               | 4,687  | 350,719  | 3,737,856   | .....            | .....          | .....              |  |
| 282                                    | 155                       | 30           | 17      | ..... | 8                 | 55     | 1,129    | 30,645      | .....            | .....          | .....              |  |
| 80,969                                 | 179                       | 1,010        | 7,309   | 161   | 897               | 9,377  | 885,742  | 7,335,042   | .....            | .....          | .....              |  |

# TWELFTH INSPECTION DISTRICT—1912.

## ANNUAL REPORT.

Counties—Johnson, Williamson.

OSCAR CARTLIDGE, *Inspector*, Marion.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield:*

SIR—Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Johnson and Williamson.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT.

|   |           |
|---|-----------|
| Number of counties producing coal.....                | 2         |
| Number of shipping mines.....                         | 34        |
| Number of local mines.....                            | 15        |
| Number of new or reopened mines.....                  | 3         |
| Number of closed or abandoned mines.....              | 6         |
| Number of miners.....                                 | 4,469     |
| Others underground, men.....                          | 3,008     |
| Boys underground.....                                 | 232       |
| Boys above ground.....                                | 5         |
| Others above ground.....                              | 808       |
| Total number of employees.....                        | 8,522     |
| Total tons of coal produced.....                      | 7,090,425 |
| Days of active operation, all mines.....              | 150       |
| Keys of powder used for blasting coal.....            | 187,014   |
| Tons of coal shipped.....                             | 6,693,959 |
| Tons supplied to locomotives.....                     | 7,601     |
| Tons sold to local trade.....                         | 69,382    |
| Tons consumed and wasted at the mines.....            | 319,483   |
| Number of fatal accidents.....                        | 23        |
| Number of non-fatal accidents.....                    | 62        |
| Number of employees to each fatal accident.....       | 371       |
| Number of employees to each non-fatal accident.....   | 137       |
| Tons of coal produced to each fatal accident.....     | 308,279   |
| Tons of coal produced to each non-fatal accident..... | 114,362   |
| Ratio of fatal accidents per 1,000 employees.....     | 2.7       |

The following table shows the output by counties for the years ended June 30, 1911 and 1912, with the increase:

| Counties.       | Total output—tons. |           | Increase. |
|-----------------|--------------------|-----------|-----------|
|                 | 1911.              | 1912.     |           |
| Johnson.....    | 1,521              | 3,871     | 2,350     |
| Williamson..... | 5,212,749          | 7,086,554 | 1,873,805 |
| Total.....      | 5,314,270          | 7,090,425 | 1,876,155 |

## NEW MINES.

Three mines not reported last year are classed this year as new mines.

## IDLE MINES.

The following shipping mines have not operated during the year: Keystone Big Muddy Coal & Coke Company, Pittsburg; Gent Coal Company, Marion; Big Muddy Consolidated Coal Company, Johnston City; Standard Collieries Company No. 1, Whiteash.

The local mines not in operation are the Spillertown Coal Company, and W. O. Beasley. These mines are classed as abandoned mines.

## CHANGE OF NAME.

The Standard Collieries Company No. 2, Johnston City, is known as the McClintock mine, E. C. Searles, receiver.

Of the local mines, the George Beltz mine was changed to the Carlisle Coal Company and later to J. W. Stallcup mine; the S. A. Woodbridge is now Simpson & Anderson; the Smith mine is operated by L. Bradley.

## CYCLONE.

The Western Coal & Mining Company, Bush, suffered a severe property damage, and fifteen lives were lost as the result of a cyclone which destroyed the greater part of the village, the evening of the 20th of April, 1912.

The office, store and numerous residence buildings, all of which belonged to the company, were destroyed, entailing a loss of about \$75,000.00 with no insurance.

Much suffering and great damage to personal property was caused to the residents, most of whom were employees. The miners and residents of the community as well as the company responded nobly to the call of distress. Governor Deneen sent a supply of tents and in a short time everybody was provided for, and as comfortable as they could be under the circumstances.

This same cyclone destroyed the boiler house and part of the engine room at the W. P. Rend Collieries Company, No. 2 mine, and some damage to the boiler house at Peabody No. 3, but fortunately no lives were lost at either place.

## IMPROVEMENTS.

Nearly all of the mines in the district took advantage of the April and May suspension and cleaned up their roadways, went over their stoppings, made new partings and repaired their screens, machinery, etc.

The Pittsburg & Big Muddy Coal Company, installed a 150 K. W., 275 volts, Thompson-Ryan generator, direct connected to an 18 inch by 18 inch Ridgeway engine; four Goodman chain breast machines, and one 6-ton Goodman gathering motor. They also built an addition to their engine room to contain the new machinery.

The West Virginia Coal Company has added to its equipment, one 100 K. W., 275 volts, Ridgeway dynamo, direct connected to a 16 inch by 16 inch Ridgeway engine, and a rescreening plant for taking care of the smaller sizes of coal.

The Johnston City Coal Company has increased its equipment with fifteen Morgan-Gardener H. H. D. chain breast under-cutting machines; one 200 K. W., 275 volts, Crocker-Wheeler generator, direct connected to a 21 inch by 22 inch Skinner automatic engine; four 150 H. P. 125 pounds pressure, Frost boilers, and three complete Draeger mine rescue apparatus, with oxygen pump, a pulmotor, two dozen Wolf safety lamps, and three portable electric lamps.

The Chicago & Big Muddy Coal & Coke Company has re-timbered the escapement shaft; put a concrete foundation under the fan; re-timbered the underground stable; put up new ropes and sheaves; raised the drag conveyor, and installed two Goodman chain breast machines as an experiment.

The Peabody Coal Company has installed at mine No. 3, a 300 K. W., 275 volts, general electric generator, which is direct connected to a 22 inch by 24 inch Chuse engine.

The Madison Coal Corporation is constructing at No. 9 mine, a Jeffrey 14 feet by 5 feet double inlet, reversible, underthrow fan, which will be absolutely fireproof and will deliver 200,000 cubic feet of air per minute at 150 revolutions against a water gauge of 4 inches. It will have two Skinner, high speed, automatic, 19 inch by 20 inch, direct connected engines, and with both engines running it will be capable of delivering 250,000 cubic feet per minute with a 6-inch water gauge. Nicholson engine stops are being provided for the hoists at both No. 8 and No. 9 mines.

This company is building alongside Dr. Spring's residence at Dewmaine, a hospital, that will be convenient and sanitary, fitted up with everything that will be for the comfort of the patients, and large enough to accommodate six at one time. It will be heated with hot air and provided with every necessity to take care of their seriously injured.

Mine rescue stations are under construction at Nos. 8 and 9 mines, which will, when completed, be a source of pride not only to the company but to the district. The buildings are of brick, with reinforced concrete roofs, and will have a first-aid and observation room, 16 feet by 17 feet 4 inches; a smoke chamber, 8 feet by 10 feet; a rescue apparatus room, 6 feet by 8 feet 4 inches; a supply room, 6 feet by 8 feet 4 inches; a dressing room, 8 feet by 8 feet 3 inches, and a shower bath room, 8 feet by 7 feet. Three complete Fleuss rescue outfits have been purchased for each mine, and in addition to the rescue stations on the surface, a concrete room will be provided underground at each mine for the same purpose. These underground rooms will be heated by electricity, and will contain stretchers, blankets, bandages, medicines, etc., for emergency use.

A large number of the company's supervising officers and miners have been trained at its expense at the State Mine Rescue Station at Benton, and efficient rescue and first-aid teams will be maintained and regularly drilled at each mine, so, that, if anything serious occurs, they will be ready to respond as quickly and effectively as organized effort can make possible.

In addition to the above improvements, gasoline motors have been purchased by the following companies: Taylor Coal Company, mine No. 2; Carterville District Coal Company; Watson Coal Company; Carterville Coal Company; Southern Illinois Coal Company's Oak Ridge mine.

#### FATAL ACCIDENTS.

July 3, 1911, Nick Trumbar, miner, aged 38 years, single, was killed by falling slate in the Madison Coal Corporation's No. 9 mine, Dewmaine, Williamson County.

August 9, 1911, Robert Stucker, miner, aged 42 years, married, was killed by falling slate in the Pond Creek Coal Co.'s mine, Herrin, Williamson County. He leaves a widow and six children.

August 21, 1911, Hosea Formler, driver, aged 21 years, single, employed in the Pond Creek Coal Co.'s mine, was killed by pit cars.

August 23, 1911, Angela Verger, miner, aged 27 years, married, was killed by flying coal in the Big Muddy Fuel Co.'s mine, Johnston City. He leaves a widow and three children.

August 23, 1911, Thomas Bullars, miner, aged 45 years, married, was killed in the Big Muddy Fuel Co.'s mine, Johnston City, by a premature blast. He leaves a widow and one child.

September 15, 1911, Allen Roach, miner, aged 18 years, single, was killed by falling slate in the Taylor Coal Co.'s No. 2 mine, Herrin, Williamson County.



September 19, 1911, Ernest Parks, driver, aged 24 years, married, was killed by pit cars in the Williamson County Coal Company's mine, Johnston City. He leaves a widow.

September 27, 1911, William Arbilait, shot firer, aged 27 years, married, employed in the Southern Illinois Coal Company's Oak Ridge mine, Herrin, was killed by a premature blast. He leaves a widow and two children.

October 4, 1911, Ernest Gosnell, trapper, aged 17 years, single, was killed by falling coal in the Sunnyside Coal Co.'s mine, Herrin.

December 15, 1911, Holiday Jeter, miner, aged 26 years, married, employed in the No. 3 mine of the Peabody Coal Company, Marion, was killed by a fall of slate in his room. Upon entering his working place he found that a shot, fired the previous night, was standing "tight," and he started to mine it loose over the top. While so engaged a large piece of slate fell, breaking his neck. He leaves a widow and two children.

December 31, 1911, John Figula, laborer, aged 26 years, single, was engaged, together with three other men, in pushing a loaded car of timber onto the cage at the top landing at No. 9 mine of the Madison Coal Corporation. The front end of the car got off the tracks on the cage and Figula took a timber off the car and attempted to lift the end onto the track. In some way the timber slipped and he fell into the shaft. He landed on the north cage which was hanging about seventy feet from the top and was dead when help reached him.

January 3, 1912, Earl Cox, miner, age not given, single, was killed in the Jeffries mine of the Carterville and Herrin Coal Company, Herrin, by a fall of slate.

Some months before this when the present mine manager took charge of the mine, he discovered that young Cox and several other boys, working underground, were not of the legal age, and they were removed. After waiting until he was sixteen Cox applied again for a position and his brother signing an agreement to take care of him, he was reinstated. He had been working about four months when death came. The slate that fell on him had been sounded by his brother who thought it safe, but to make sure had put up a prop to support it. Apparently, it was looser than they thought, and one prop was not enough to hold it. He was crushed about the head and shoulders; was taken at once to the Murphysboro hospital, where he died the same day.

January 27, 1912, Joe Feltes, miner, aged 46 years, married, was killed by a fall of slate in the mine of the Sunnyside Coal Company, Herrin. Deceased was loading coal in his room when a large piece of the roof fell upon him. There was no top coal and a slip at the face caused the slate to loosen and give way. He leaves a widow.

February 3, 1912, John Akocitis, miner, aged 22 years, single, was killed in the mine of the Johnston City Coal Company, Johnston City, by falling coal from the face.

February 6, 1912, Ed Boyd, miner, aged 33 years, married, was killed by a fall of slate in Oak Ridge mine of the Southern Illinois Coal Company, Johnson City. The piece which fell was about seven or eight feet from the face of his room and had been supported by three props which were sprung when the weight came upon them. He was drilling a hole at the time, and no doubt heard the slate breaking and ran, getting under it just as it fell. He leaves a widow and two children.

February 8, 1912, Marshall Jack, machine helper, aged 36 years, married, was killed in the mine of the Carterville District Coal Co., Marion. The machine was cutting the fourth board in a room when a slip at the back of the cut caused the coal to loosen and fall on him. The slip could not be seen and the noise of the machine, which was of the puncher type, no doubt made it impossible for him to hear the coal working before it fell. He leaves a widow and two children.

February 22, 1912, Fred S. Darnell, driver, aged 18 years, single, employed in the mine of the Johnston City Coal Company, Johnston City, was killed by falling in front of a car. In attempting to alight from his car while it was in motion his foot slipped and he fell in front of it. He leaves his mother and two small sisters who depended upon him for support.

March 2, 1912, Randolph Dale, timberman, aged 62 years, married, employed at the Big Muddy Coal & Iron Company's No. 7 mine, Herrin, was injured by falling slate, causing death on March 4th. On the morning of the accident deceased was sent into room No. 62, by the mine manager to secure some loose top. Thinking it better to take the loose material down than to attempt to timber it, he proceeded to knock a prop which was supporting part of the slate. While so engaged the mass of loose rock gave way, crushing him underneath it. He leaves a widow and two children.

March 10, 1912, Ira Schull, driver, aged 18 years, single, employed in the McClintock mine, Johnston City, was killed by a gas explosion.

March 13, 1912, Carlo Tudorolo, laborer, aged 46 years, employed in the No. 8 mine of the Madison Coal Corporation, Dewmaine, died from injuries caused by falling slate which occurred the evening of March 11th. Deceased was engaged in cutting hitch holes for "I" beams at the shaft bottom when a large piece of slate fell, breaking his back. He leaves a widow and four children.

March 30, 1912, William Patterson, motorman, aged 23 years, married, employed by the Chicago & Big Muddy Coal & Coke Company, Marion, lost his life by falling in front of a moving trip of loaded cars. Deceased had gone into the main west parting for a trip, and while inside a cross-bar fell across the track, one end resting on the ground, the other on the trolley wire. In coming out he did not see the bar until almost upon it, when he shut off the motor and attempted to jump, falling under the moving cars. He leaves a widow.

May 17, 1912, John Watson, assistant mine manager, aged 30 years, married, employed at Taylor Coal Co.'s No. 2 mine, Herrin, was killed by falling off a moving motor, which ran over him. He leaves a widow and four children.

June 16, 1912, William Murphy, timberman, aged 26 years, single, employed at No. 2 mine of the W. P. Rend Coal & Coke Co., Herrin, while engaged in cutting a hitch for an "I" beam, which was to be placed across the main entry near the shaft bottom, was killed by a large piece of slate, which fell from the roof.

Respectfully submitted,

OSCAR CARTLIDGE,

*State Inspector of Mines, Twelfth District, Marion, Ill.*

*Fatal casualties—Twelfth District—June 30, 1912.*

| Date.    | Name.             | Age. | Occupation.    | Residence.    | Married.<br>Single. | Widow. | Children. | Dependents. | Cause of death. |
|----------|-------------------|------|----------------|---------------|---------------------|--------|-----------|-------------|-----------------|
| 1911.    |                   |      |                |               |                     |        |           |             |                 |
| July 3   | Nick Trimbar      | 38   | Miner          | Dewmaine      | 1                   |        |           |             | Falling slate   |
| Aug. 21  | Robt. Trucker     | 42   | do.            | Herrin        | 1                   | 1      | 6         | 7           | do.             |
|          | Hosea Formler     | 21   | Driver         | do.           | 1                   |        |           |             | Pit car         |
|          | Angelo Verger     | 27   | Miner          | Johnston City | 1                   | 1      | 3         | 4           | Flying coal     |
|          | Thos. Bullaro     | 45   | do.            | do.           | 1                   | 1      | 1         | 2           | Premature blast |
| Sept. 15 | Allen Roach       | 18   | do.            | Cartersville  | 1                   | 1      |           |             | Falling slate   |
|          | Ernest Parks      | 24   | Driver         | Johnston City | 1                   | 1      | 1         | 1           | Pit cars        |
|          | William Arbilait  | 27   | Shot firer     | do.           | 1                   | 1      | 2         | 3           | Premature blast |
| Oct. 4   | Ernest Goswell    | 17   | Trapper        | Herrin        | 1                   |        |           |             | Falling coal    |
| Dec. 15  | Holiday Jeter     | 26   | Miner          | Marion        | 1                   | 1      | 2         | 3           | Falling slate   |
|          | John Figula       | 26   | Laborer        | Cambria       | 1                   | 1      |           |             | Fell down shaft |
| 1912.    |                   |      |                |               |                     |        |           |             |                 |
| Jan. 3   | Earl Cox          |      | Miner          | Herrin        | 1                   | 1      |           |             | Falling slate   |
|          | Joe Feltes        | 46   | do.            | do.           | 1                   | 1      |           |             | do.             |
| Feb. 3   | John Atkocitis    | 22   | do.            | Johnston City | 1                   | 1      |           |             | Falling coal    |
|          | Ed. Boyd          | 33   | do.            | do.           | 1                   | 1      | 2         | 3           | Falling slate   |
|          | Marshall Jack     | 36   | Machine helper | Marion        | 1                   | 1      | 2         | 3           | Falling coal    |
|          | Fred S. Darnell   | 18   | Driver         | Johnston City | 1                   | 1      |           | 3           | Pit cars        |
| Mar. 4   | Randolph Dale     | 62   | Timberman      | Herrin        | 1                   | 1      | 2         | 1           | Falling slate   |
|          | Ira Schule        | 18   | Driver         | Danville      | 1                   | 1      |           |             | Gas explosion   |
|          | Carlo Tudorolo    | 46   | Laborer        | Dewmaine      | 1                   | 1      | 4         | 5           | Falling slate   |
|          | William Patterson | 23   | Motorman       | Marion        | 1                   | 1      | 1         | 1           | Motor           |
| May 17   | John Watson       | 30   | Mine manager   | Herrin        | 1                   | 1      | 4         | 5           | do.             |
| June 16  | William Murphy    | 26   | Miner          | Weaver        | 1                   | 1      |           |             | Falling slate   |
|          | Total             |      |                |               | 13                  | 10     | 13        | 28          | 41              |

*Recapitulation of fatal casualties—Twelfth District—1912.*

| Residence.    | No. | Occupation.    | No. | Cause of accident. | No. | Colliery.           | No. |
|---------------|-----|----------------|-----|--------------------|-----|---------------------|-----|
| Cambria       | 1   | Drivers        | 4   | Falling coal       | 4   | Big Muddy C. & I.   | 1   |
| Cartersville  | 1   | Laborers       | 2   | Falling slate      | 10  | Big Muddy Fuel      | 2   |
| Danville      | 1   | Machine helper | 1   | Flying coal        | 1   | Cartersville Herrin | 1   |
| Dewmaine      | 2   | Mine manager   | 1   | Gas explosion      | 1   | Cartersville Dist.  | 1   |
| Herrin        | 7   | Miners         | 11  | Motor              | 2   | Chicago & Big Muddy | 1   |
| Johnston City | 7   | Motorman       | 1   | Pit car            | 3   | Johnston City       | 2   |
| Marion        | 3   | Shot firer     | 1   | Premature blast    | 2   | Madison Corp.       | 3   |
| Weaver        | 1   | Timberman      | 1   |                    |     | Peabody             | 1   |
|               |     | Trapper        | 1   |                    |     | Pond Creek          | 2   |
|               |     |                |     |                    |     | Rend. W. P.         | 1   |
|               |     |                |     |                    |     | Southern Illinois   | 2   |
|               |     |                |     |                    |     | Standard, Col.      | 1   |
|               |     |                |     |                    |     | Sunnyside           | 2   |
|               |     |                |     |                    |     | Taylor              | 2   |
|               |     |                |     |                    |     | Williamson Co.      | 1   |
| Total         | 23  |                | 23  |                    | 23  |                     | 23  |

*Non-fatal casualties—Twelfth District—June 30, 1912.*

| Date. | Name.                     | Residence.            | Age. | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident.     | Time lost—days. |
|-------|---------------------------|-----------------------|------|----------|---------|-----------|-------------|--|-----------------|
| 1911. |                           |                       |      |          |         |           |             |  |                 |
| July  | 7 Jas Truson.....         | 30 Rendville.....     |      | 1        |         | 1         | 2           | Head injured, cage.....                        | 95              |
|       | 8 Victor Meran.....       | 45 Johnston City..... |      | 1        |         |           |             | Ankle injured, falling slate.....              | 53              |
|       | 12 Mike Ferrentelli.....  | 40 White Ash.....     |      | 1        |         | 2         | 3           | Shoulders injured, falling slate.....          | 60              |
|       | 14 Carmel Cosentino.....  | 37 Dewmaine.....      |      | 1        |         |           |             | Leg broken falling slate.....                  | 75              |
|       | 14 Harry Bailey.....      | 21 Herrin.....        |      | 1        |         |           |             | Head injured, falling slate.....               | 62              |
|       | 22 John Harris.....       | 21 Johnston City..... |      | 1        |         |           |             | Arm broken, machine.....                       | 30              |
| Aug.  | 20 Peter Henderson.....   | 39 Herrin.....        |      | 1        |         |           | 1           | Leg broken, falling slate.....                 | 90              |
|       | 23 Rufus Jackson.....     | 30 Dewmaine.....      |      | 1        |         | 2         | 3           | Leg broken, pit car.....                       | 72              |
| Sept. | 22 Walter McHale.....     | 20 Johnston City..... |      | 1        |         |           |             | Head injured, falling slate.....               | 32              |
| Oct.  | 17 Frank Shelton.....     | 40 ..do.....          |      | 1        |         | 2         | 3           | Toes broken, falling slate.....                | 60              |
|       | 17 Ben F. Kelley.....     | 29 Carterville.....   |      | 1        |         |           |             | Foot injured, pit car.....                     | 67              |
|       | 20 Thos. Jones.....       | 28 Bush.....          |      | 1        |         | 1         | 2           | Body injured, falling slate.....               | 30              |
|       | 22 H. B. Eckles.....      | 58 Rendville.....     |      | 1        |         |           | 1           | Foot injured, railroad car.....                | 60              |
| Nov.  | 2 Louis Viccaire.....     | 34 White Ash.....     |      | 1        |         |           |             | Wrist broken, pit car.....                     | 45              |
|       | 4 H. K. Gowman.....       | 23 Herrin.....        |      | 1        |         | 1         | 2           | Finger injured, pit car.....                   | 34              |
|       | 7 Paul Notti.....         | 30 Johnston City..... |      | 1        |         |           |             | Leg broken, falling slate.....                 | 60              |
|       | 9 Thos. White.....        | 30 Herrin.....        |      | 1        |         |           |             | Leg injured, railroad car.....                 | 180             |
|       | 9 Fred Scott.....         | 24 Carterville.....   |      | 1        |         |           |             | Leg broken, pit car.....                       | 66              |
|       | 14 Hayes Alexander.....   | 35 Marion.....        |      | 1        |         |           |             | Leg broken, falling slate.....                 | *               |
|       | 15 Harry Meese.....       | 22 Bush.....          |      | 1        |         | 1         | 1           | Leg injured, railroad car.....                 | 30              |
|       | 21 Richard Moore.....     | 33 Dewmaine.....      |      | 1        |         |           | 1           | Arm injured, falling slate.....                | 60              |
|       | 25 Tom Samples.....       | 21 Marion.....        |      | 1        |         |           |             | Back injured, pit car.....                     | 50              |
|       | 25 Joe Salavaga.....      | 28 Colpville.....     |      | 1        |         |           |             | Leg injured, falling slate.....                | 60              |
|       | 28 Speer Refernes.....    | 25 Clifford.....      |      | 1        |         |           |             | Body burned, gas explosion.....                | 30              |
|       | 28 Geo. Machas.....       | 39 ..do.....          |      | 1        |         | 2         | 3           | ..do.....                                      | 30              |
| Dec.  | 1 Wick Ielasi.....        | 24 Johnston City..... |      | 1        |         |           |             | Hand injured, machine.....                     | 60              |
|       | 1 Able Hicks.....         | 53 Herrin.....        |      | 1        |         |           | 1           | Collar bone broken, pit car.....               | 68              |
|       | 13 Lucas Dallas.....      | 59 Dewmaine.....      |      | 1        |         | 2         | 3           | Arm broken, fell down.....                     | 30              |
|       | 18 Wm. Mauzy.....         | 33 Clifford.....      |      | 1        |         | 4         | 5           | Back injured, lifting truck.....               | 33              |
|       | 30 Otis Jones.....        | 27 Johnston City..... |      | 1        |         |           |             | Leg injured, falling slate.....                | 30              |
| 1912. |                           |                       |      |          |         |           |             |  |                 |
| Jan.  | 2 Geo. Gray.....          | 31 Bush.....          |      | 1        |         | 1         | 2           | Body injured, pit car.....                     | 36              |
|       | 5 Pete Ansuella.....      | 25 Clifford.....      |      | 1        |         |           |             | Leg injured, pit car.....                      | 33              |
|       | 8 Mat Mortimer.....       | 59 Herrin.....        |      | 1        |         | 7         | 4           | Head injured, falling slate.....               | 71              |
| Feb.  | 5 Nick Gioviano.....      | 52 Johnston City..... |      | 1        |         | 1         | 2           | Toe broken, falling slate.....                 | 30              |
|       | 9 Joe Ogaline.....        | 21 Bush.....          |      | 1        |         |           |             | Wrist broken, falling coal.....                | 60              |
|       | 10 Fred Renard.....       | 36 Herrin.....        |      | 1        |         | 6         | 7           | Body burned, gas explosion.....                | 30              |
|       | 14 Geo. Perrine.....      | 45 Marion.....        |      | 1        |         | 3         | 4           | Leg injured, pit car.....                      | 60              |
|       | 19 Harry Hoefinghaus..... | 21 Herrin.....        |      | 1        |         | 1         | 2           | ..do.....                                      | 30              |
|       | 20 Pete Zantoff.....      | 30 ..do.....          |      | 1        |         |           |             | Leg broken, engine.....                        | 84              |
|       | 20 Clint Hendley.....     | 17 ..do.....          |      | 1        |         |           |             | Collar bone broken, pit car.....               | 60              |
|       | 20 John Robinson.....     | 52 Marion.....        |      | 1        |         | 1         | 2           | Body injured, falling slate.....               | 35              |
|       | 22 Fred Buckner.....      | 19 Clifford.....      |      | 1        |         |           |             | Finger broken, falling coal.....               | 30              |
|       | 22 Ed. Lewis.....         | 26 ..do.....          |      | 1        |         | 2         | 3           | Leg injured, falling slate.....                | 30              |
|       | 26 Hugh Bell.....         | 21 Herrin.....        |      | 1        |         |           |             | Leg injured, kicked by mule.....               | 40              |
|       | 28 Dominick Falone.....   | 32 Johnston City..... |      | 1        |         | 1         | 2           | Shoulder injured, coal falling down shaft..... | 30              |
| Mar.  | 5 Dan Watson.....         | 55 Dewmaine.....      |      | 1        |         | 7         | 7           | Body injured, pit car.....                     | 50              |
|       | 9 Bennett Everett.....    | 50 Marion.....        |      | 1        |         | 7         | 9           | Leg injured, machine.....                      | *               |
|       | 9 John Shubiniski.....    | 24 Bush.....          |      | 1        |         | 3         | 4           | Foot broken, falling slate.....                | 60              |
|       | 12 John Owens.....        | 45 Herrin.....        |      | 1        |         | 4         | 5           | Wrist injured, pit car.....                    | 30              |
|       | 18 J. L. Weaver.....      | 56 ..do.....          |      | 1        |         | 6         | 6           | Foot injured, falling coal.....                | 34              |
|       | 21 G. B. Camperoni.....   | 37 Johnston City..... |      | 1        |         |           | 1           | Ankle broken, falling coal.....                | 70              |
|       | 21 Fred Williams.....     | 26 Herrin.....        |      | 1        |         |           | 1           | Leg broken, falling slate.....                 | *               |
|       | 22 Otto Wyatt.....        | 21 Johnston City..... |      | 1        |         |           |             | Leg broken, mule.....                          | 60              |
|       | 22 John Polenski.....     | 41 Marion.....        |      | 1        |         | 2         | 4           | Body burned, blown out shot.....               | 60              |
|       | 25 Nuburn Bryan.....      | 20 Johnston City..... |      | 1        |         |           |             | Ankle injured, pit car.....                    | 35              |
|       | 28 Norman McClintock..... | 17 Herrin.....        |      | 1        |         |           | 1           | Ribs broken, falling slate.....                | 36              |
|       | 28 Bert Mann.....         | 32 Carterville.....   |      | 1        |         | 5         | 6           | Foot injured, falling slate.....               |                 |

*Non-fatal casualties—Twelfth District—Concluded.*

| Date.  | Name.               | Age. | Residence.        | Married. | Single. | Children. | Dependents. | Character of injury and cause of accident. | Time lost—days. |
|--------|---------------------|------|-------------------|----------|---------|-----------|-------------|--|-----------------|
| 1912.  |                     |      |                   |          |         |           |             |  |                 |
| May 14 | Joe Delozzia.....   | 25   | Johnston City..   | 1        |         |           |             | Leg injured, machine.....                  | 63              |
| 20     | Chas. Marlow.....   | 25   | Herrin.....       | 1        |         |           |             | Leg broken, falling slate.....             | 36              |
| 24     | Harry Smothers..... | 23   | Cartersville..... | 1        |         |           |             | Body injured, pit car.....                 | 47              |
| June 7 | Grover Hoover.....  | 28   | do.....           | 1        |         |           |             | Ankle injured, falling cross bar.          | 30              |
| 15     | Henry Morris.....   | 49   | Herrin.....       | 1        |         | 5         | 6           | Finger cut off, falling coal.....          | *               |
|        | Total.....          |      |                   | 24       | 28      | 79        | 110         |  |                 |

\* Not returned to work, July 1, 1912.

Total number injured..... 62

Number not returned to work July 1, 1912..... 4

Number returned..... 58

Total number of days lost by men returned to work..... 2,981

Average days lost..... 51.40

*Recapitulation of non-fatal casualties—Twelfth District—1912.*

| Residence.         | No. | Occupation.         | No. | Cause of accident.        | No. | Colliery.                   | No. |
|--------------------|-----|---------------------|-----|---------------------------|-----|-----------------------------|-----|
| Bush.....          | 5   | Cagers.....         | 4   | Blown out shot.....       | 1   | Big Muddy C. & I.....       | 8   |
| Cartersville.....  | 5   | Couplers.....       | 2   | Cage.....                 | 1   | Big Muddy Fuel.....         | 3   |
| Clifford.....      | 6   | Drivers.....        | 12  | Coal fell down shaft..... | 1   | Cartersville.....           | 1   |
| Colpville.....     | 1   | Foreman.....        | 1   | Engine.....               | 1   | Cartersville Dist.....      | 1   |
| Dewmaine.....      | 5   | Laborers.....       | 4   | Falling coal.....         | 5   | Chicago & Big Muddy.....    | 1   |
| Herrin.....        | 17  | Loaders.....        | 2   | Falling cross bar.....    | 1   | Chicago & Cartersville..... | 8   |
| Johnston City..... | 13  | Machine runner..... | 6   | Falling slate.....        | 22  | Hafer Washed.....           | 5   |
| Marion.....        | 6   | Miners.....         | 21  | Fell down.....            | 1   | Johnston City.....          | 1   |
| Rendville.....     | 2   | Shot firers.....    | 1   | Gas explosion.....        | 3   | Madison Corp.....           | 7   |
| White Ash.....     | 2   | Timbermen.....      | 6   | Lifting truck.....        | 1   | Rend, W. P.....             | 3   |
|                    |     | Trappers.....       | 2   | Machine.....              | 4   | Standard Col.....           | 6   |
|                    |     | Trip rider.....     | 1   | Mule, kicked by.....      | 2   | Sunnyside.....              | 3   |
|                    |     |                     |     | Pit cars.....             | 16  | Taylor.....                 | 1   |
|                    |     |                     |     | Railroad cars.....        | 3   | Watson.....                 | 2   |
|                    |     |                     |     |                           |     | Western.....                | 5   |
|                    |     |                     |     |                           |     | West Virginia.....          | 2   |
|                    |     |                     |     |                           |     | Williamson Co.....          | 5   |
| Total.....         | 62  |                     | 62  |                           | 62  |                             | 62  |

*Recapitulation of non-fatal casualties, nature of injuries, conjugal relations and time lost—Twelfth District—1912.*

| Nature of injuries.     | Number. | Married. | Single. | Children. | Dependents. | Time lost—days. |          | Percent-<br>age of<br>injuries. |
|-------------------------|---------|----------|---------|-----------|-------------|-----------------|----------|---------------------------------|
|                         |         |          |         |           |             | Total.          | Average. |                                 |
| Ankle broken.....       | 1       | 1        | .....   | .....     | 1           | 70              | 70.00    | 1.61                            |
| Ankles injured.....     | 3       | .....    | 3       | .....     | .....       | 118             | 39.33    | 4.84                            |
| Arms broken.....        | 2       | 1        | 1       | 2         | 3           | 92              | 46.00    | 3.22                            |
| Arm injured.....        | 1       | 1        | .....   | .....     | 1           | 60              | 60.00    | 1.61                            |
| Backs injured.....      | 2       | 1        | 1       | 4         | 5           | 83              | 41.50    | 3.23                            |
| Bodies burned.....      | 4       | 3        | 1       | 10        | 14          | 150             | 37.50    | 6.45                            |
| Bodies injured.....     | 5       | 4        | 1       | 10        | 13          | 208             | 41.60    | 8.07                            |
| Collar bone broken..... | 2       | 1        | 1       | .....     | 1           | 128             | 64.00    | 3.23                            |
| Feet broken.....        | 1       | 1        | .....   | 3         | 4           | 60              | 60.00    | 1.61                            |
| Feet injured.....       | 4       | 3        | 1       | 11        | 14          | 210             | 52.50    | 6.45                            |
| Finger broken.....      | 1       | .....    | 1       | .....     | .....       | 30              | 30.00    | 1.61                            |
| Finger cut off.....     | 1       | 1        | .....   | 5         | 6           | .....           | .....    | 1.61                            |
| Fingers injured.....    | 1       | 1        | .....   | 1         | 2           | 34              | 34.00    | 1.61                            |
| Hand injured.....       | 1       | .....    | 1       | .....     | .....       | 60              | 60.00    | 1.61                            |
| Heads injured.....      | 4       | 2        | 2       | 8         | 6           | 228             | 57.00    | 6.45                            |
| Legs broken.....        | 10      | 3        | 7       | 2         | 5           | 543             | 67.87    | 16.13                           |
| Legs injured.....       | 11      | 6        | 5       | 13        | 20          | 556             | 55.60    | 17.74                           |
| Ribs broken.....        | 1       | .....    | 1       | .....     | .....       | 36              | 36.00    | 1.61                            |
| Shoulders injured.....  | 2       | 2        | .....   | 3         | 5           | 90              | 45.00    | 3.23                            |
| Toes broken.....        | 2       | 2        | .....   | 3         | 5           | 90              | 45.00    | 3.23                            |
| Wrists broken.....      | 2       | .....    | 2       | .....     | .....       | 105             | 52.50    | 3.23                            |
| Wrists injured.....     | 1       | 1        | .....   | 4         | 5           | 30              | 30.00    | 1.61                            |
| Total.....              | 62      | 34       | 28      | 79        | 110         | 2,981           | 51.40    | 100.00                          |

*Johnson County—*

| Number.            | Name of operator.    | Postoffice address of the mines. | Output of mines in tons. |       |               |        |
|--------------------|----------------------|----------------------------------|--------------------------|-------|---------------|--------|
|                    |                      |                                  | Mine run.                | Lump. | Other grades. | Total. |
| LOCAL MINES.       |                      |                                  |                          |       |               |        |
| 1                  | John Hampton.....    | New Burnside.....                |                          | 1,652 | 52            | 1,704  |
| 2                  | Fyler & Heaton.....  | do.....                          |                          | 1,289 | 275           | 1,564  |
| 3                  | T. M. McMichael..... | do.....                          |                          | 500   | 103           | 603    |
| Total—3 mines..... |                      |                                  |                          | 3,441 | 430           | 3,871  |

Mines reported for 1911, 2.

New mines, 1.

Mines in 1912, 3.



*Twelfth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        | Number. |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|---------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |         |
| .....                             | 1,704           | 6                                      | 59                        | 2                         | .....                | 2      | 1,704       | .....       | .....      | .....    | .....   | .....                          | .....  | 1       |
| .....                             | 1,564           | 30                                     | 161                       | 4                         | 1                    | 5      | 1,564       | .....       | .....      | .....    | .....   | .....                          | .....  | 2       |
| .....                             | 603             | 20                                     | 150                       | 2                         | 1                    | 3      | 603         | .....       | .....      | .....    | .....   | .....                          | .....  | 3       |
| .....                             | 3,871           | 56                                     | 123                       | 8                         | 2                    | 10     | 3,871       | .....       | .....      | .....    | .....   | .....                          | .....  |         |

## Williamson County—

| Number.         | Name of operator.                        | Postoffice address of the mines. | Output of mines in tons. |           |               |           |
|-----------------|--|----------------------------------|--------------------------|-----------|---------------|-----------|
|                 |  |                                  | Mine run.                | Lump.     | Other grades. | Total.    |
| SHIPPING MINES. |  |                                  |                          |           |               |           |
| 1               | Big Muddy C. & I. Co., No. 8.            | Clifford.                        | 303,960                  | 57,127    | 209,608       | 570,695   |
| 2               | Johnston City Coal Co., No. 1.           | Johnston City.                   | 296,302                  | 112,051   | 131,883       | 540,236   |
| 3               | Madison Coal Corp., No. 9.               | Dewmaine.                        | 365,292                  | 32,678    | 25,586        | 423,556   |
| 4               | Chicago & Cartersville Coal Co., A.      | Herrin.                          | 23,450                   | 89,276    | 294,694       | 407,420   |
| 5               | Sunnyside Coal Co., No. 1.               | do.                              | 4,126                    | 47,569    | 290,688       | 342,383   |
| 6               | Western Coal Mining Co., Bush.           | Bush.                            | 259,664                  | 16,659    | 56,370        | 332,693   |
| 7               | Big Muddy Coal & Iron Co., No. 7.        | Herrin.                          | 133,887                  | 32,024    | 147,598       | 313,509   |
| 8               | W. P. Rend C. & C. Co., No. 2.           | do.                              | 55,176                   | 46,002    | 189,760       | 290,938   |
| 9               | Madison Coal Corp., No. 8.               | Dewmaine.                        | 174,397                  | 63,845    | 50,726        | 288,968   |
| 10              | Peabody Coal Co., No. 2.                 | Marion.                          | 3,771                    | 62,539    | 162,055       | 228,365   |
| 11              | Taylor Coal Co., No. 2.                  | Herrin.                          | 9,064                    | 28,569    | 190,186       | 227,819   |
| 12              | Peabody Coal Co., No. 3.                 | Marion.                          | 8,754                    | 37,241    | 176,706       | 222,701   |
| 13              | Cartersville Coal Co., Burr C.           | Cartersville.                    | 6,552                    | 50,236    | 161,630       | 218,418   |
| 14              | Chicago & Big Muddy C. Co.               | Marion.                          | 27,793                   | 42,230    | 134,369       | 204,392   |
| 15              | Hafer Washed Coal Co., No. 3.            | Cartersville.                    |                          | 28,326    | 171,811       | 200,137   |
| 16              | Chicago & Cartersville C. Co., B.        | Herrin.                          | 5,122                    | 42,600    | 149,812       | 197,534   |
| 17              | West Virginia Coal Co., No. 1.           | Marion.                          | 67,968                   | 62,026    | 62,363        | 192,357   |
| 18              | Southern Ill. C. & C. Co., O. R.         | Herrin.                          | 3,085                    | 36,229    | 149,559       | 188,873   |
| 19              | Big Muddy Fuel Co., N. Va.               | Johnston City.                   | 24,147                   | 26,637    | 128,597       | 179,381   |
| 20              | Cartersville Dist. C. Co., No. 1.        | Marion.                          | 6,000                    | 34,078    | 134,312       | 174,390   |
| 21              | Pond Creek Coal Co., Franklin.           | Herrin.                          | 75,689                   | 21,950    | 60,450        | 158,089   |
| 22              | Standard Col. Co., McClintock.           | Johnston City.                   | 15,875                   | 41,151    | 92,640        | 149,666   |
| 23              | Cartersville & Herrin Coal Co., No. 1.   | Herrin.                          | 30,758                   | 31,989    | 62,784        | 125,531   |
| 24              | Williamson Co. Coal Co.                  | Johnston City.                   | 61,361                   | 13,839    | 50,323        | 125,523   |
| 25              | St. Louis-Cartersville Coal Co., Dale.   | Herrin.                          | 14,827                   | 18,007    | 82,032        | 114,866   |
| 26              | Cartersville & Big Muddy Coal Co., John. | Cambria.                         | 32,514                   | 20,961    | 56,540        | 110,015   |
| 27              | Taylor Coal Co., No. 1.                  | Herrin.                          | 19,928                   | 11,449    | 77,217        | 108,594   |
| 28              | Watson Coal Co., No. 1.                  | do.                              | 33,127                   | 24,652    | 48,826        | 106,605   |
| 29              | Southern Illinois C. & C. Co., Hemlock.  | Herrin.                          | 31,228                   | 23,688    | 17,366        | 72,282    |
| 30              | Donally-Koennecke C. Co.                 | Centralia.                       | 4,131                    | 14,355    | 53,248        | 71,734    |
| 31              | Seranton & Big Muddy C. M. Co.           | Marion.                          | 20,320                   | 13,343    | 36,539        | 70,202    |
| 32              | Robert Dick C. Co., Dick.                | Cambria.                         |                          | 17,700    | 41,591        | 59,291    |
| 33              | Pittsburg-Big Muddy C. Co., No. 2.       | Pittsburg.                       | 7,204                    | 7,793     | 23,366        | 38,363    |
| 34              | Watson Coal Co., No. 2.                  | Herrin.                          | 1,085                    | 714       | 1,296         | 3,095     |
| Total.          |  |                                  | 2,126,557                | 1,209,533 | 3,722,531     | 7,058,621 |
| LOCAL MINES.    |  |                                  |                          |           |               |           |
| 1               | Breese-Taylor Coal Co.                   | Marion.                          | 3,892                    | 4,125     |               | 8,017     |
| 2               | J. S. McNeill.                           | Cartersville.                    | 8,000                    |           |               | 8,000     |
| 3               | Henry T. Simpson.                        | Marion.                          | 5,000                    |           |               | 5,000     |
| 4               | John A. Young.                           | Cartersville.                    |                          | 3,130     |               | 3,530     |
| 5               | F. E. Rentfro.                           | Crab Orchard.                    | 300                      | 900       |               | 1,200     |
| 6               | Carlisle Coal Co.                        | Cartersville.                    |                          | 125       | 450           | 575       |
| 7               | Chas. W. Swan.                           | Crab Orchard.                    | 490                      |           |               | 490       |
| 8               | Motsinger & Carter.                      | do.                              |                          | 400       |               | 450       |
| 9               | L. Bradley.                              | do.                              | 300                      |           |               | 300       |
| 10              | W. S. Tarpley.                           | do.                              |                          | 180       |               | 180       |
| 11              | M. Shaw.                                 | do.                              |                          | 150       |               | 150       |
| 12              | Black Diamond Coal Co.                   | Marion.                          | 41                       |           |               | 41        |
| Total.          |  |                                  | 18,023                   | 9,010     | 450           | 27,933    |
| Total—46 mines. |  |                                  | 2,144,580                | 1,218,543 | 771,561       | 7,086,554 |

Mines reported for 1911, 50.

New mines, 2.

Abandoned mines, 6.

Mines in 1912, 46.

*Twelfth District—1912.*

| Disposition of output.            |                 | Kegs of powder used for blasting coal. | Days of active operation. | Employees.                |                      |        | Tons mined. |             | Accidents. |          | Blasting coal—from solid or undercut or both. | Number of animals underground. |        |
|-----------------------------------|-----------------|--|---------------------------|---------------------------|----------------------|--------|-------------|-------------|------------|----------|---|--------------------------------|--------|
| Tons loaded on cars for shipment. | Other purposes. |  |                           | Average number of miners. | All other employees. | Total. | By hand.    | By machine. | Killed.    | Injured. |   | Horses.                        | Mules. |
| 523,183                           | 47,512          | 7,967                                  | 231                       | .....                     | 366                  | 366    | .....       | 570,695     | .....      | 6        | U. C.   | .....                          | 23     |
| 534,236                           | 6,000           | 1,450                                  | 240                       | 280                       | 186                  | 466    | 412,002     | 128,234     | 2          | 1        | Both.   | .....                          | 30     |
| 413,430                           | 10,126          | 14,489                                 | 178                       | 300                       | 150                  | 450    | 376,380     | 47,176      | 2          | 1        | do.   | .....                          | 24     |
| 369,775                           | 37,645          | 5,785                                  | 198                       | 16                        | 444                  | 460    | 20,157      | 387,263     | .....      | 5        | do.   | .....                          | 25     |
| 300,099                           | 42,284          | 8,597                                  | 192                       | 179                       | 259                  | 438    | 180,606     | 161,777     | 2          | 3        | do.   | .....                          | 20     |
| 314,933                           | 17,760          | 14,955                                 | 259                       | 230                       | 125                  | 355    | 332,693     | .....       | .....      | 5        | Solid.  | .....                          | 19     |
| 286,867                           | 26,642          | 11,634                                 | 161                       | 273                       | 125                  | 398    | 313,509     | .....       | 1          | 2        | do.   | .....                          | 19     |
| 278,907                           | 12,031          | 3,178                                  | 200                       | .....                     | 315                  | 315    | .....       | 290,938     | .....      | 1        | U. C.   | 1                              | 14     |
| 276,334                           | 12,634          | 10,763                                 | 194                       | 250                       | 100                  | 350    | 288,968     | .....       | 1          | 6        | Solid.  | .....                          | 24     |
| 223,926                           | 4,439           | 5,518                                  | 204                       | 160                       | 62                   | 222    | 106,192     | 122,173     | .....      | .....    | Both.   | .....                          | 14     |
| 212,108                           | 15,711          | 8,551                                  | 215                       | 160                       | 77                   | [237   | 227,819     | .....       | 2          | 1        | Solid.  | .....                          | 32     |
| 217,765                           | 4,936           | 8,461                                  | 116                       | 275                       | 115                  | 390    | 222,701     | .....       | 1          | .....    | do.   | .....                          | 20     |
| 212,623                           | 5,795           | 7,603                                  | 138                       | 178                       | 86                   | 264    | 218,418     | .....       | .....      | 1        | do.   | .....                          | 21     |
| 200,615                           | 3,777           | 7,600                                  | 142                       | 182                       | 81                   | 263    | 204,392     | .....       | 1          | 1        | do.   | .....                          | 13     |
| 188,127                           | 15,010          | 7,082                                  | 152                       | 155                       | 50                   | 205    | 200,137     | .....       | .....      | 5        | do.   | .....                          | 20     |
| 190,035                           | 7,499           | 6,397                                  | 178                       | 208                       | 93                   | 301    | 197,534     | .....       | .....      | 3        | do.   | .....                          | 16     |
| 188,062                           | 3,295           | 3,042                                  | 186                       | 126                       | 45                   | 170    | 26,215      | 166,142     | .....      | 2        | Both.   | .....                          | 8      |
| 179,503                           | 9,370           | 5,263                                  | 183                       | .....                     | 219                  | 219    | 132,211     | 56,662      | 2          | .....    | do.   | .....                          | 17     |
| 174,976                           | 4,405           | 5,804                                  | 206                       | 155                       | 77                   | 232    | 117,409     | 61,972      | 2          | 3        | do.   | .....                          | 9      |
| 156,390                           | 18,000          | 1,600                                  | 141                       | 146                       | 92                   | 238    | .....       | 174,390     | 1          | 1        | U. C.   | .....                          | 18     |
| 150,689                           | 7,400           | 1,600                                  | 220                       | 17                        | 212                  | 229    | 7,119       | 150,970     | 2          | .....    | Both.   | .....                          | 14     |
| 142,125                           | 7,541           | 2,644                                  | 171                       | .....                     | 178                  | 178    | .....       | 149,666     | 1          | 6        | U. C.   | .....                          | 15     |
| 121,151                           | 4,380           | 4,975                                  | 180                       | 100                       | 48                   | 148    | 125,531     | .....       | 1          | .....    | Solid.  | .....                          | 14     |
| 124,863                           | 660             | 4,400                                  | 124                       | 150                       | 62                   | 212    | 125,523     | .....       | 1          | 5        | do.   | .....                          | 26     |
| 111,876                           | 2,990           | 4,141                                  | 147                       | 116                       | 56                   | 172    | 114,866     | .....       | .....      | .....    | do.   | .....                          | 18     |
| 104,617                           | 5,398           | 4,584                                  | 153                       | 136                       | 41                   | 177    | 110,015     | .....       | .....      | .....    | do.   | .....                          | 11     |
| 99,296                            | 9,298           | 3,896                                  | 142                       | 130                       | 37                   | 167    | 108,594     | .....       | .....      | .....    | do.   | .....                          | 30     |
| 104,923                           | 1,682           | 4,040                                  | 158                       | 75                        | 28                   | 103    | 106,605     | .....       | .....      | 2        | do.   | .....                          | 12     |
| 65,685                            | 6,597           | 2,594                                  | 130                       | 104                       | 43                   | 147    | 72,282      | .....       | .....      | .....    | do.   | .....                          | 8      |
| 68,652                            | 3,082           | 2,867                                  | 104                       | 96                        | 39                   | 135    | 71,734      | .....       | .....      | .....    | do.   | .....                          | 12     |
| 68,730                            | 1,472           | 1,140                                  | 145                       | 21                        | 122                  | 143    | 7,200       | 63,002      | .....      | .....    | U. C.   | .....                          | 7      |
| 53,291                            | 6,000           | 2,356                                  | 94                        | 100                       | 50                   | 150    | 59,291      | .....       | .....      | .....    | Solid.  | .....                          | 12     |
| 36,163                            | 2,200           | 1,100                                  | 183                       | 60                        | 32                   | 92     | 14,000      | 24,363      | .....      | .....    | Both.   | .....                          | 4      |
| 3,004                             | 91              | 127                                    | 9                         | 45                        | 24                   | 69     | 3,095       | .....       | .....      | .....    | Solid.  | .....                          | 6      |
| 6,693,959                         | 364,662         | 186,203                                | 167                       | 4,422                     | 4,039                | 8,461  | 4,503,198   | 2,555,423   | 23         | 62       | .....   | 1                              | 575    |
| .....                             | .....           | 40                                     | 170                       | 3                         | .....                | 3      | 8,017       | .....       | .....      | .....    | .....   | .....                          | 1      |
| .....                             | .....           | 200                                    | 300                       | 6                         | 6                    | 12     | 8,000       | .....       | .....      | .....    | .....   | .....                          | 2      |
| .....                             | .....           | 145                                    | 230                       | 3                         | 1                    | 4      | 5,000       | .....       | .....      | .....    | .....   | .....                          | 3      |
| .....                             | .....           | 250                                    | 200                       | 4                         | 3                    | 7      | 3,530       | .....       | .....      | .....    | .....   | .....                          | 4      |
| .....                             | .....           | 25                                     | 85                        | 4                         | .....                | 4      | 1,200       | .....       | .....      | .....    | .....   | .....                          | 5      |
| .....                             | .....           | 10                                     | 65                        | 5                         | 1                    | 6      | 575         | .....       | .....      | .....    | .....   | .....                          | 6      |
| .....                             | .....           | 19                                     | 49                        | 2                         | .....                | 2      | 490         | .....       | .....      | .....    | .....   | .....                          | 7      |
| .....                             | .....           | 30                                     | 90                        | 3                         | .....                | 3      | 450         | .....       | .....      | .....    | .....   | .....                          | 8      |
| .....                             | .....           | 2                                      | 50                        | 2                         | .....                | 2      | 300         | .....       | .....      | .....    | .....   | .....                          | 9      |
| .....                             | .....           | 10                                     | 20                        | 3                         | .....                | 3      | 180         | .....       | .....      | .....    | .....   | .....                          | 10     |
| .....                             | .....           | 20                                     | 40                        | 2                         | .....                | 2      | 150         | .....       | .....      | .....    | .....   | .....                          | 11     |
| .....                             | .....           | 4                                      | 5                         | 2                         | 1                    | 3      | 41          | .....       | .....      | .....    | .....   | .....                          | 12     |
| .....                             | 7,601           | 755                                    | 109                       | 39                        | 12                   | 51     | 27,933      | .....       | .....      | .....    | .....   | .....                          | .....  |
| 6,693,959                         | 372,263         | 186,958                                | 152                       | 4,461                     | 4,051                | 8,512  | 4,531,131   | 2,555,423   | 23         | 62       | .....   | 1                              | 575    |

*Shipping mines—recapitulation by*

| Counties.      | Number of mines. | Productions of different grades in tons. |           |         |           |           |         | Total.    | Disposition of output—tons.  |                 |
|----------------|------------------|--|-----------|---------|-----------|-----------|---------|-----------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.     | Egg.    | Nut.      | Pea.      | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Williamson.... | 34               | 2,126,557                                | 1,209,533 | 771,111 | 1,141,029 | 1,622,076 | 188,315 | 7,058,621 | 6,693,959                    | 364,662         |
| Total.....     | 34               | 2,126,557                                | 1,209,533 | 771,111 | 1,141,029 | 1,622,076 | 188,315 | 7,058,621 | 6,693,959                    | 364,662         |

*Local mines—recapitulation by*

| Counties.       | Number of mines. | Productions of different grades in tons. |           |         |           |           |         | Total.    | Disposition of output—tons.  |                 |
|-----------------|------------------|--|-----------|---------|-----------|-----------|---------|-----------|------------------------------|-----------------|
|                 |                  | Mine run.                                | Lump.     | Egg.    | Nut.      | Pea.      | Slack.  |           | Loaded on cars for shipment. | Other purposes. |
| Johnson.....    | 3                | .....                                    | 3,441     | .....   | 405       | .....     | 25      | 3,871     | .....                        | 3,871           |
| Williamson....  | 12               | 18,023                                   | 9,010     | 450     | .....     | .....     | 450     | 27,933    | .....                        | 27,933          |
| Total.....      | 15               | 18,023                                   | 12,451    | 450     | 405       | .....     | 475     | 31,804    | .....                        | 31,804          |
| The District... | 49               | 2,144,580                                | 1,221,984 | 771,561 | 1,141,434 | 1,622,076 | 188,790 | 7,090,425 | 6,693,959                    | 396,466         |

Whole number of mines reported for 1911, 52.

Number of new mines opened during the year, 3.

Number of mines abandoned during the year, 6.

Whole number of mines reported for 1912, 49.

*counties—Twelfth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 186,203                                | 167                       | 4,422        | 3,006   | 232   | 801               | 8,461  | 4,503,198   | 2,555,423   | 3,103,707        | 1,255,891      | 2,699,023          |
| 186,203                                | 167                       | 4,422        | 3,006   | 232   | 801               | 8,461  | 4,503,198   | 2,555,423   | 3,103,707        | 1,255,891      | 2,699,023          |

*counties—Twelfth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 56                                     | 123                       | 8            | .....   | ..... | 2                 | 10     | 3,871       | .....       | .....            | .....          | .....              |
| 755                                    | 109                       | 39           | 2       | ..... | 10                | 51     | 27,933      | .....       | .....            | .....          | .....              |
| 811                                    | 112                       | 47           | 2       | ..... | 12                | 61     | 31,804      | .....       | .....            | .....          | .....              |
| 187,014                                | 150                       | 4,469        | 3,008   | 232   | 813               | 8,522  | 4,535,002   | 2,555,423   | 3,103,707        | 1,255,891      | 2,699,023          |

*All mines—recapitulation by*

| Counties.      | Number of mines. | Productions of different grades in tons. |           |          |             |             |             | Total.      | Disposition of output—tons.  |                 |
|----------------|------------------|--|-----------|----------|-------------|-------------|-------------|-------------|------------------------------|-----------------|
|                |                  | Mine run.                                | Lump.     | Egg.     | Nut.        | Pea.        | Slack.      |             | Loaded on cars for shipment. | Other purposes. |
| Johnson .....  | 3 .....          | 3,441 .....                              | 405 ..... | 25 ..... | 3,871 ..... | 3,871 ..... | 3,871 ..... | 3,871 ..... | 3,871 .....                  | 3,871 .....     |
| Williamson.... | 46               | 2,144,580                                | 1,218,543 | 771,561  | 1,141,029   | 1,622,076   | 188,765     | 7,086,554   | 6,693,959                    | 392,595         |
| Total.....     | 49               | 2,144,580                                | 1,221,984 | 771,561  | 1,141,434   | 1,622,076   | 188,790     | 7,090,425   | 6,693,959                    | 396,466         |

counties—*Twelfth District—1912.*

| Kegs of powder used for blasting coal. | Days of active operation. | Employees.   |         |       |                   |        | Tons mined. |             | Blasting coal.   |                |                    |
|--|---------------------------|--------------|---------|-------|-------------------|--------|-------------|-------------|------------------|----------------|--------------------|
|  |                           | Underground. |         |       | All above ground. | Total. | By hand.    | By machine. | From solid—tons. | Undercut—tons. | Both methods—tons. |
|  |                           | Miners.      | Others. | Boys. |                   |        |             |             |                  |                |                    |
| 56                                     | 123                       | 8            | .....   | ..... | 2                 | 10     | 3,871       | .....       | .....            | .....          | .....              |
| 186,958                                | 152                       | 4,461        | 3,008   | 232   | 811               | 8,512  | 4,531,131   | 2,555,423   | .....            | .....          | .....              |
| 187,014                                | 150                       | 4,469        | 3,008   | 232   | 813               | 8,522  | 4,535,002   | 2,555,423   | .....            | .....          | .....              |

## MINE MANAGERS, HOISTING ENGINEERS AND MINE EXAMINERS.

MINE MANAGERS HOLDING FIRST CLASS CERTIFICATES ISSUED DURING  
THE YEAR ENDING DECEMBER 31, 1912.

| Name.                  | Postoffice.         | Name.                | Postoffice.        |
|------------------------|---------------------|----------------------|--------------------|
| Adams, Wm.....         | Staunton.....       | Morgan, Geo. L.....  | Glen Carbon.....   |
| Barrowman, James.....  | Granville.....      | Morris, W. J.....    | Dorrisville.....   |
| Bowker, Geo.....       | Farmington.....     | Myers, Isaac.....    | Harrisburg.....    |
| Cathcart, Wm. J.....   | Harrisburg.....     | Nealson, Robert..... | Herrin.....        |
| Coulson, R. E. M.....  | Glen Carbon.....    | Nichols, Walter..... | Benton.....        |
| Cummings, W. J.....    | Springfield.....    | Nichols, Walter..... | do.....            |
| Curley, J. W.....      | Toluca.....         | Payne, Wm.....       | Decatur.....       |
| Davis, Joseph.....     | Gillespie.....      | Paul, Thos. W.....   | Johnston City..... |
| Edwards, John.....     | Eldorado.....       | Plummer, T. J.....   | Gillespie.....     |
| Fraser, John.....      | Gillespie.....      | Powell, James.....   | Mt. Olive.....     |
| Gumber, Harry P.....   | Christopher.....    | Ralls, O. F.....     | Herrin.....        |
| Gosnell, Geo. W.....   | Herrin.....         | Reese, D. E.....     | Gillespie.....     |
| Gosnell, Stephen.....  | Benton.....         | Rees, Edwin.....     | do.....            |
| Greeman, James.....    | Girard.....         | Rock, David I.....   | Danville.....      |
| Grive, Robert M.....   | Collinsville.....   | Skelton, Alex.....   | Springfield.....   |
| Griffith, Herbert..... | Herrin.....         | Simpson, R. D.....   | Farmersville.....  |
| Helm, Theodore.....    | Hillsboro.....      | Simpson, John.....   | Lovington.....     |
| Henry, Wm.....         | Danville.....       | Smith, Wm.....       | Herrin.....        |
| Herbert, Stephen.....  | Staunton.....       | Sneddon, Geo.....    | Springfield.....   |
| Hodges, Fred T.....    | Danville.....       | Soloman, E. C.....   | Auburn.....        |
| Hogan, Patrick.....    | Canton.....         | Steward, Roy.....    | White Ash.....     |
| Howell, John.....      | Staunton.....       | Taylor, Arthur.....  | Belleville.....    |
| Huml, Frank.....       | Hillsboro.....      | Templeton, Wm.....   | Cartersville.....  |
| Irons, Joseph.....     | Brereton.....       | Towers, Wm.....      | Eldorado.....      |
| James, Walter.....     | Tower Hill.....     | Urbain, Gus.....     | Christopher.....   |
| Jones, J. E.....       | Danville.....       | Walker, W. R.....    | Glen Carbon.....   |
| Land, John.....        | West Frankfort..... | White, Wm. K.....    | Herrin.....        |
| Maitland, J. W.....    | Herrin.....         | White, Phillip.....  | Gillespie.....     |
| Meyer, John.....       | Duquoin.....        | Williams, Thos.....  | Harrisburg.....    |
|                        |                     | Wood, Thos. L.....   | Pinckneyville..... |



**MINE MANAGERS HOLDING SECOND CLASS CERTIFICATES ISSUED DURING  
THE YEAR ENDING DECEMBER 31, 1912.**

| Name.                   | Postoffice.       | Name.                   | Postoffice.       |
|-------------------------|-------------------|-------------------------|-------------------|
| Angle, E. C.....        | Cuba.....         | Havron, Walter.....     | Panama.....       |
| Arnett, Sidney A.....   | Lewistown.....    | Houlik, Samuel.....     | Colchester.....   |
| Atlig, J. P.....        | Petersburg.....   | Johnson, John.....      | St. David.....    |
| Bishop, E. L.....       | Cuba.....         | Johnson, H. C.....      | Middletown.....   |
| Blaine, James.....      | Viola.....        | Jordan, Abbot.....      | Bunker Hill.....  |
| Bolden, A. C.....       | DeSoto.....       | Lemon, Geo. A.....      | Sparta.....       |
| Boone, Wm.....          | do.....           | Lopeman, Charles.....   | Rapatee.....      |
| Boostrom, Edward.....   | Onieda.....       | McVey, Edward.....      | Herrin.....       |
| Bransom, W. W.....      | Canton.....       | Meistedt, August.....   | Bartonville.....  |
| Brooks, Clyde.....      | Lewistown.....    | Mitchell, John.....     | Oakwood.....      |
| Catton, Geo. S.....     | LaFayette.....    | Moon, W. H.....         | Blandinville..... |
| Clarcy, Peter.....      | Middle Grove..... | Peterson, Carl E.....   | New Windsor.....  |
| Clark, Alonzo.....      | Tennessee.....    | Peterson, J. A.....     | do.....           |
| Cook, Louis E.....      | DuQuoin.....      | Porter, Charles.....    | Colchester.....   |
| Craig, J. W.....        | De Soto.....      | Row, Daniel P.....      | Table Grove.....  |
| Crain, H. P.....        | Cramville.....    | Schaer, Pierre.....     | Farmington.....   |
| Cruser, Larkin.....     | Lewistown.....    | Scott, Gilbert.....     | Marion.....       |
| Cummings, Wm. B.....    | Rushville.....    | Stanley, Ed.....        | Maple Mills.....  |
| Davis Oscar.....        | Lewistown.....    | Trout, James.....       | Henderson.....    |
| Donahoo, J. L.....      | Moline.....       | Urban, Daniel.....      | Sparland.....     |
| Emamuelson, Eric E..... | Brereton.....     | Waddill, C. E.....      | Tennessee.....    |
| Endrea, Geo.....        | Wyoming.....      | Willcoxon, Herbert..... | Lewistown.....    |
| Falkenstein, C. I.....  | Astoria.....      | Yager, L. H.....        | Bathalto.....     |
| Ferguson, Jesse.....    | Tice.....         | Zinn, Edward.....       | Industry.....     |
| Fouts, J. H.....        | Canton.....       |                         |                   |
| Gramenz, Amel.....      | Coal Valley.....  |                         |                   |
| Hamilton, Elmer.....    | Blandenville..... |                         |                   |
| Hassler, John E.....    | Belleville.....   |                         |                   |

# HOISTING ENGINEERS HOLDING CERTIFICATES ISSUED DURING THE YEAR ENDING DECEMBER 31, 1912.

| Name.              | Postoffice.   | Name.                 | Postoffice. |
|--------------------|---------------|-----------------------|-------------|
| Aaron, John M.     | Herrin        | Langlitz, John        | Maseoutah   |
| Adeock, Jesse C.   | Centralia     | Leitze, Creed         | Alsey       |
| Aitken, Bruce      | Christopher   | Lipp, James           | Coal City   |
| Baldwin, A. E.     | Staunton      | McClure, Ralph J.     | Blue Monnd  |
| Barnes, Frate      | Johnston City | Martin, Edward        | Freeburg    |
| Barten, W. Neff    | Belleville    | Martin, Owen          | Danville    |
| Bixby Harry H.     | Sparta        | May, W. P.            | Coffeeen    |
| Camp, Ralph        | Texas City    | Mills, Charles J.     | Pana        |
| Chambers, Leslie   | Pekin         | Muser, Wm. D.         | Lenzburg    |
| Chandler, F. L.    | Sandoval      | Nowitzki, Harry       | Granville   |
| Chrisman, A. C.    | Girard        | Oswald, A. E.         | Canton      |
| Costlion, W.       | Sparta        | Paekingham, Reuben M. | Granville   |
| Cook, Jesse E.     | DuQuoin       | Passent, W. E.        | Ellisville  |
| Cutler, Geo.       | do.           | Phillips, Sedley      | Belleville  |
| Daly Micheal       | Collinsville  | Rinehart, Arch.       | Taylorville |
| Diehl, Fred        | Belleville    | Rohline, Warner       | Cuba        |
| Dick, David H.     | Canton        | Rodgers, Dudley       | Christopher |
| Ditmer, P. L.      | Taylorville   | Shaffer, Roy T.       | Troy        |
| Dougherty, John    | Benton        | Seipp, Henry          | O'Fallon    |
| Griver, Wesley     | Belleville    | Smith, James W.       | Cambria     |
| Edwards, Fideller  | Wasson        | Spegal, Enos          | Bush        |
| Empson, Thos       | Ledford       | Spyres, Arthur        | Canton      |
| Goalby, W. L.      | Belleville    | Stoops, J. A.         | Sesser      |
| Grimes, Elmer      | Oakwood       | Upehurch, Wm          | Benton      |
| Hatfield, Jesse    | Sesser        | Utich, Clarence       | Streator    |
| Hiller, Harry R.   | Clifford      | Voight, C. J.         | Springfield |
| Horton, Milo       | Harrisburg    | Weggandt, Arthur      | Belleville  |
| Hutton, Thos. Jr.  | Tallula       | Williams, T. B.       | Herrin      |
| Jackson, O. M.     | Mt. Vernon    | Williams, Thos.       | Virden      |
| Jewett, Frank      | Pana          | Wiseman, Richard L.   | Herrin      |
| King, Frank        | Mulkeytown    | Wilson, Allen         | Danville    |
| Komiski, Andrew    | Oglesby       | Wilson, Roland        | Marion      |
| Komiski, Joseph J. | Minonk        |                       |             |
| Komiski, Mike      | Spring Valley |                       |             |

# MINE EXAMINERS HOLDING CERTIFICATES ISSUED DURING THE YEAR ENDING DECEMBER 31, 1912.

| Name.              | Postoffice.    | Name.                 | Postoffice.    |
|--------------------|----------------|-----------------------|----------------|
| Banlow, Fred Jr.   | Springfield    | Karla, Gustav         | Decatur        |
| Bartels, H. H.     | Mt. Olive      | Kirkpatrick, Adam     | Glen Carbon    |
| Bayless, I. N.     | Zeigler        |                       |                |
| Bell, H. C.        | Sparta         | Lever, Eli            | Glen Carbon    |
| Berggren, A. E.    | Mathersville   | Lindsey, Ed. N.       | Cramville      |
| Betson, J. W.      | Peoria         | Lobenot, John         | Collinsville   |
| Brown, Harry       | Divernon       | Locker, And           | West Frankfort |
| Bryson, Alexander  | Trenton        |                       |                |
| Burns, Wm. A.      | Eldorado       | McGittigan, Thos.     | O'Fallon       |
| Butler, Arthur     | Danville       | McGill, Thos.         | Lovington      |
|                    |                | Martin, Chas.         | Springfield    |
| Cassasa, Joseph    | Spring Valley  | Maxwell, Wm.          | Spring Valley  |
| Coleman, John      | West Frankfort | Morris, W. J.         | Dorrisville    |
| Copening Joseph    | Dewmaine       |                       |                |
| Cook, Geo.         | Sparland       | Nicholson, John Jr.   | Springfield    |
| Coxon, Robert      | Mascoutah      | Nealson, Robert       | Herrin         |
| Coxen, John        | Belleville     |                       |                |
| Corrigan, Geo. P.  | Springfield    | Osborne, John         | Spring Valley  |
| Craig, Levy L.     | Pittsburg      |                       |                |
| Cross, Wm.         | Glen Carbon    | Palmer, Joshua        | Harrisburg     |
|                    |                | Pease, Joseph         | Caseyville     |
| Davis, Joseph      | Gillespie      | Peek, R. J.           | Girard         |
| Davis, Fred        | Thayer         | Phillips, Geo.        | Spring Valley  |
| Day, Samuel        | Gillespie      | Price, Evan           | West Frankfort |
| Diswysen, Wm.      | Girard         | Purvis, Chas. R.      | Odin           |
| Dixon, Joseph      | Johnston City  |                       |                |
| Drury, Chas. Swift | Dewmaine       | Reagan, Dan           | Centralia      |
|                    |                | Richardson, Alexander | Carterville    |
| Elders, Mack       | Carterville    | Rodenbush, Charles    | West Frankfort |
|                    |                | Rollison, Everette    | Harrisburg     |
| Finney, Walter     | West Frankfort | Ronk, L. A.           | Hillsboro      |
| Fritts, E. W.      | Sesser         | Ross, James E.        | Tilden         |
|                    |                |                       |                |
| Gardner, Thos.     | Johnston City  | Sangrelet, Louis      | Collinsville   |
| Gibbs, Chas. L.    | Eldorado       | Selkirk, Thos.        | do             |
| Goff, Joseph       | Harrisburg     | Selotte, James        | Witt           |
| Gosnell, Geo. W.   | Herrin         | Showler, Robert       | Harrisburg     |
| Grant, Thos.       | Beckemeyer     | Speagle, W. H.        | Eldorado       |
| Greeman, James     | Girard         | Stewart, John G.      | Seatonville    |
| Grieve, Daniel     | Belleville     |                       |                |
| Guymon, Wm. N.     | Springfield    | Templeton, Peter      | Carterville    |
|                    |                | Tomblin, Wm.          | Peoria         |
| Hardy, Wm.         | Dawson         | Tomblin, Joseph       | do             |
| Hardy, Thos.       | Troy           |                       |                |
| Hall, Jesse T.     | Sesser         | Valine, Wm.           | Glen Carbon    |
| Hart, Patrick      | Green Ridge    |                       |                |
| Heriot, Wm.        | Moweaqua       | Wagoner, John F.      | Herrin         |
| Hindman, Moody     | Carterville    | Wilke, James          | Petersburg     |
| Holmes, F. E.      | Marion         | Williams, Garner      | Johnston City  |
| Hunsaker, Jesse    | Harrisburg     |                       |                |
|                    |                |                       |                |
| Izatt, Geo.        | Springfield    |                       |                |









